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OM protein - protein search, using sw model

Run on: October 21, 2005, 07:10:04 ; Search time 134 Seconds
(without alignments)
5461.655 Million cell updates/sec

Title: US-10-719-385-2

Perfect score: 9007

Sequence: 1 MIRSKITSVLFCRSSREL.....PESOEPLQLVQAFVRHMQR 1753

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1862951 seqs, 417491010 residues

Total number of hits satisfying chosen parameters: 1862951

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
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- 22: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	9005	100.0	1753	16	US-10-719-385-4
3	9005	100.0	1753	16	US-10-719-385-8
4	9004	100.0	1753	16	US-10-719-385-3
5	9004	100.0	1753	16	US-10-719-385-13
6	9004	100.0	1753	16	US-10-719-385-11
7	9004	100.0	1753	16	US-10-719-385-14
8	9003	100.0	1753	16	US-10-719-385-15
9	9002	99.9	1753	16	US-10-719-385-6
10	9002	99.9	1753	16	US-10-719-385-10
11	9001	99.9	1753	16	US-10-719-385-16

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13	8999	99.9	1753	16	US-10-719-385-12	Sequence 12, Appli
14	8998	99.9	1753	16	US-10-719-385-18	Sequence 18, Appli
15	8997	99.9	1753	16	US-10-719-385-9	Sequence 9, Appli
16	8993	99.8	1753	16	US-10-719-385-17	Sequence 17, Appli
17	8991	99.8	1753	16	US-10-719-385-19	Sequence 19, Appli
18	8985	99.8	1753	16	US-10-719-385-5	Sequence 5, Appli
19	8939	99.2	1745	16	US-10-719-385-21	Sequence 21, Appli
20	8939	99.2	1745	16	US-10-370-715B-544	Sequence 544, App
21	8927	99.1	3534	16	US-10-719-385-22	Sequence 22, Appli
22	8835	98.1	1889	18	US-10-450-763-40265	Sequence 40265, A
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24	4093	45.4	853	16	US-10-719-385-24	Sequence 24, Appli
25	2420	26.9	525	16	US-10-719-385-25	Sequence 25, Appli
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28	305	3.4	63	14	US-10-106-698-5917	Sequence 5917, Ap
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32	189	2.1	1248	20	US-11-097-143-11187	Sequence 11187, A
33	176.5	2.0	2905	16	US-10-437-963-154118	Sequence 154118,
34	175.5	1.9	1676	14	US-10-128-714-8246	Sequence 8246, Ap
35	169.5	1.9	2621	16	US-10-437-963-122168	Sequence 122168,
36	166	1.8	2122	16	US-10-437-963-189782	Sequence 189782,
37	165	1.8	1545	14	US-10-128-714-3246	Sequence 3246, Ap
38	160.5	1.8	2462	16	US-10-437-963-114113	Sequence 114113,
39	157	1.7	2548	17	US-10-732-923-14006	Sequence 14006, A
40	157	1.7	3859	16	US-10-408-765A-354	Sequence 354, App
41	156	1.7	1590	20	US-11-097-143-14280	Sequence 14280, A
42	156	1.7	2627	15	US-10-424-599-256710	Sequence 256710,
43	156	1.7	2733	20	US-11-097-143-9003	Sequence 9003, Ap
44	155	1.7	1557	15	US-10-369-493-2224	Sequence 2224, Ap
45	155	1.7	2834	15	US-10-424-599-256711	Sequence 256711,

ALIGNMENTS

RESULT 1

US-10-719-385-2
; Sequence 2, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10/719,385
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-719-385-2

Query Match 100.0%; Score 9007; DB 16; Length 1753;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1753; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MIRSKITSVLFCRSSRELWTLLGRSALRELSOIEALNKHWRLLGLSYKPPSPS 60
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; Sequence 4, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10/719,385
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 1753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-719-385-4
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Best Local Similarity 99.9%; Pred. No. 0;
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Qy 1741 IQLVQAFVRHMQR 1753
Db 1741 IQLVQAFVRHMQR 1753
RESULT 3
US-10-719-385-8
; Sequence 8, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10719.385
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 8
; LENGTH: 1753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-719-385-8
Query Match 100.0%; Score 9005; DB 16; Length 1753;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1752; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MIRSKITSVLISFCRSSRELMTILGRSALRELSQIEAELNKHWRRLLEGSLYKPPSPS 60
Db 1 MIRSKITSVLISFCRSSRELMTILGRSALRELSQIEAELNKHWRRLLEGSLYKPPSPS 60
Qy 61 SAEKVANKDVASPLKELGLRISKPLGDDREGSVOLLOCYQEDYRGTRDSVKTVLQDER 120
Db 61 SAEKVANKDVASPLKELGLRISKPLGDDREGSVOLLOCYQEDYRGTRDSVKTVLQDER 120

Db	61	SAEKVANKDVASPLKELGLRISKFLGLDBEQSVQLQCQLQBYDGRGTRDSVKTVLQDER	120
Qy	121	OSQALLIKIADYYEERTCILRCVILHLLTYFQDERHPYRVEYADCVDKLEKELVSKYRQ	180
Db	121	OSQALLIKIADYYEERTCILRCVILHLLTYFQDERHPYRVEYADCVDKLEKELVSKYRQ	180
Qy	181	FEELYKTEAPTWETHGNLMTQVSRWFVOCLEQSMLEIIFLYYAYFEMAPSDLLVLT	240
Db	181	FEELYKTEAPTWETHGNLMTQVSRWFVOCLEQSMLEIIFLYYAYFEMAPSDLLVLT	240
Qy	241	KMFKEQSGFGRQNRHLVDETMDFVDRIQYFSGALILVEGMDIESLHKCALDDRRRLHQF	300
Db	241	KMFKEQSGFGRQNRHLVDETMDFVDRIQYFSGALILVEGMDIESLHKCALDDRRRLHQF	300
Qy	301	AQDGLICQDMDCLMTFGDIPHPAPVLLAWALLRHILNPEETSSVVRKIGGTAIQLNVFQ	360
Db	301	AQDGLICQDMDCLMTFGDIPHPAPVLLAWALLRHILNPEETSSVVRKIGGTAIQLNVFQ	360
Qy	361	YLTRLQSLASGGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQODIIDTACEVLADPSL	420
Db	361	YLTRLQSLASGGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQODIIDTACEVLADPSL	420
Qy	421	PELFWGTEPTSGLGIILDSVCGMFPHELLSPQLQLRALVSGKSTAKVVSFLDKMGFYNE	480
Db	421	PELFWGTEPTSGLGIILDSVCGMFPHELLSPQLQLRALVSGKSTAKVVSFLDKMGFYNE	480
Qy	481	LYGHKPHDVISHEDGTLWRROTPKLLYPLGQGNLRIPQGTQGVQVMDDBRAYLVRWEYSY	540
Db	481	LYGHKPHDVISHEDGTLWRROTPKLLYPLGQGNLRIPQGTQGVQVMDDBRAYLVRWEYSY	540
Qy	541	SSWTLFTCEIEMILHVVSTADVTOHCORVKPIIDLVHKVISTDLSIADCLLPTTSRIYML	600
Db	541	SSWTLFTCEIEMILHVVSTADVTOHCORVKPIIDLVHKVISTDLSIADCLLPTTSRIYML	600
Qy	601	LQRLTTVISPPVDVIAFCVNCVLTVLAARNPAKVMOTLRHTGFLFPFAHVPVSSLSQMSIAE	660
Db	601	LQRLTTVISPPVDVIAFCVNCVLTVLAARNPAKVMOTLRHTGFLFPFAHVPVSSLSQMSIAE	660
Qy	661	GMNAGGYGNLLMNSQEQGEGYVTIAFLRLITLVKGQGSTQSGLVPCVMFVLEKMLP	720
Db	661	GMNAGGYGNLLMNSQEQGEGYVTIAFLRLITLVKGQGSTQSGLVPCVMFVLEKMLP	720
Qy	721	SYHKWRVNSHGVEIOICLLILELHAILNLNCHETDLHSSHTPSLOFLCICSLAYTEAGOT	780
Db	721	SYHKWRVNSHGVEIOICLLILELHAILNLNCHETDLHSSHTPSLOFLCICSLAYTEAGOT	780
Qy	781	VINIMGIGVDTIDMVMAAQPRSDGAEQGGQQLIKTVKLAFSVTNNVIRLKPSPNVVSP	840
Db	781	VINIMGIGVDTIDMVMAAQPRSDGAEQGGQQLIKTVKLAFSVTNNVIRLKPSPNVVSP	840
Qy	841	LEQALSOHGAHGNLLIAVLAKYIYHKIDDPALPLAIQILLKRLATVAPMSVYACLGNDAAA	900
Db	841	LEQALSOHGAHGNLLIAVLAKYIYHKIDDPALPLAIQILLKRLATVAPMSVYACLGNDAAA	900
Qy	901	IRDAFLTRLOKSIDMRIKWMILEFLTVAVETQGLTELFNLNLEVKGDSGSEKFSLGWM	960
Db	901	IRDAFLTRLOKSIDMRIKWMILEFLTVAVETQGLTELFNLNLEVKGDSGSEKFSLGWM	960
Qy	961	SCLHAVILELDSQQDDRYWCPPLHRAAIAFLHALWQDRRDSAMLVLRTKPKWENLTSP	1020
Db	961	SCLHAVILELDSQQDDRYWCPPLHRAAIAFLHALWQDRRDSAMLVLRTKPKWENLTSP	1020
Qy	1021	LFGLTSPSETSEPSILETCALIMKIIICLEIYYVVGSLDQSLKDTLKXFSIEKRFAYWS	1080
Db	1021	LFGLTSPSETSEPSILETCALIMKIIICLEIYYVVGSLDQSLKDTLKXFSIEKRFAYWS	1080
Qy	1081	GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWRMLIIATTHADIMHILTDSVVRQLFLDV	1140
Db	1081	GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWRMLIIATTHADIMHILTDSVVRQLFLDV	1140
Qy	1141	LDGTKALLVPASVNCRLGSMKCTLLIILLRQWKRELGVSDEILGPLTEILEGVLAQDQ	1200
Db	1141	LDGTKALLVPASVNCRLGSMKCTLLIILLRQWKRELGVSDEILGPLTEILEGVLAQDQ	1200

Qy	1201	QLMEKTKAKVFSAFITVLQWKEMKVSIDIPOYSQVLNVNVCETIQEEVIALFDQTRHSLALG	1260
Db	1201	QLMEKTKAKVFSAFITVLQWKEMKVSIDIPOYSQVLNVNVCETIQEEVIALFDQTRHSLALG	1260
Qy	1261	SATEDKXDMETDDCSRSRHRDQDQVCVGLGLHLAKELCEVDEGDGSLQVTRRLPILPTL	1320
Db	1261	SATEDKXDMETDDCSRSRHRDQDQVCVGLGLHLAKELCEVDEGDGSLQVTRRLPILPTL	1320
Qy	1321	LTTLEVSILRMKQNLHTEATLHLLLTARTQOGATAVAGAGITQSIPLLSVYQLSTNG	1380
Db	1321	LTTLEVSILRMKQNLHTEATLHLLLTARTQOGATAVAGAGITQSIPLLSVYQLSTNG	1380
Qy	1381	TAQTPSASRSKSLDAPSPGVIYRLSMSLMBOLLKTLRYNLFPEALDFVGVHQRERTLOCLNA	1440
Db	1381	TAQTPSASRSKSLDAPSPGVIYRLSMSLMBOLLKTLRYNLFPEALDFVGVHQRERTLOCLNA	1440
Qy	1441	VRTVQSLACLAEADHTVGFILQLSNFMKEMHFLPOLMRDIOVNLGYLCOACTSLLHSRK	1500
Db	1441	VRTVQSLACLAEADHTVGFILQLSNFMKEMHFLPOLMRDIOVNLGYLCOACTSLLHSRK	1500
Qy	1501	MLQHYLQNKNGDGLPSAVAQVORPPSAASAAPSSSKQPAADTEASEQQALHTVQYGLLK	1560
Db	1501	MLQHYLQNKNGDGLPSAVAQVORPPSAASAAPSSSKQPAADTEASEQQALHTVQYGLLK	1560
Qy	1561	IILSKTLAALRHFTPDVQCILLQSLDLAEYNFLFALSFTTPTPDSEVAPSGFTLLATVNV	1620
Db	1561	IILSKTLAALRHFTPDVQCILLQSLDLAEYNFLFALSFTTPTPDSEVAPSGFTLLATVNV	1620
Qy	1621	ALNMLGELDKKKEPLTQAVGLSTQAEGRTRLKSLMFTMENCIFYLLISQAMRYLRDPAVH	1680
Db	1621	ALNMLGELDKKKEPLTQAVGLSTQAEGRTRLKSLMFTMENCIFYLLISQAMRYLRDPAVH	1680
Qy	1681	PRDKQMKQELSELSTLLSSLSRYFRGAPSPSPATGVLPSPQCKSTLSKASPEQEP	1740
Db	1681	PRDKQMKQELSELSTLLSSLSRYFRGAPSPSPATGVLPSPQCKSTLSKASPEQEP	1740
Qy	1741	IQLVQAFVRHMQR 1753	
Db	1741	IQLVQAFVRHMQR 1753	

RESULT 4
US-10-719-385-3
; Sequence 3, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10/719,385
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-719-385-3

Query Match 100.0%; Score 9004; DB 16; Length 1753;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1752; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MIRSKITSVLSCRSRELWTLLIGRSALRELSQJAEALNKHWRRLLEGLSYKPPSPS	60
Db	1	MIRSKITSVLSCRSRELWTLLIGRSALRELSQJAEALNKHWRRLLEGLSYKPPSPS	60
Qy	61	SAEKVANKDVASPLKELGLRISKFLGLDBEQSVQLQCQLQBYDGRGTRDSVKTVLQDER	120

Db 61 SAEKYKANKOVASPLKEVGLRISKFLGDEBSQVQLLQCYQEDYGRGTRDVKVTLQDER 120
Qy 121 OSQALILKADYYEERTCIILRCVLHLTYFQDERHPYRVYADCVCKLEKELYSKVRQ 180
Db 121 OSQALILKADYYEERTCIILRCVLHLTYFQDERHPYRVYADCVCKLEKELYSKVRQ 180
Qy 181 FEELYKTEAPTETHGNLMTQSRVWFVQCLREQSMLEIIFLYAYFEMAPSDLLVLT 240
Db 181 FEELYKTEAPTETHGNLMTQSRVWFVQCLREQSMLEIIFLYAYFEMAPSDLLVLT 240
Qy 241 KMFKEQSGSQTNRHLVDETMDFVDRIGYFSALILVEGMDIESLHKCALDDRELHOF 300
Db 241 KMFKEQSGSQTNRHLVDETMDFVDRIGYFSALILVEGMDIESLHKCALDDRELHOF 300
Qy 301 AODGLICODMCLMTFGDIIPHAAPVLLAWALLRHTLNPEETSSVVRKIGGTATQLNVFQ 360
Db 301 AODGLICODMCLMTFGDIIPHAAPVLLAWALLRHTLNPEETSSVVRKIGGTATQLNVFQ 360
Qy 361 YLTRLLQSLAGGNDCTTSTACMCVYGLLSFVLTSLHLTLGNQDIIIDTACEVLADPSL 420
Db 361 YLTRLLQSLAGGNDCTTSTACMCVYGLLSFVLTSLHLTLGNQDIIIDTACEVLADPSL 420
Qy 421 PELFWGTPTSLGLIILDSVCGMFPHILSPILLOLRALVSGKSTAKKYVSFLDKMSFYNE 480
Db 421 PELFWGTPTSLGLIILDSVCGMFPHILSPILLOLRALVSGKSTAKKYVSFLDKMSFYNE 480
Qy 481 LYKXKPHDVI SHEDGTLWRRTPKLLYPLGGQTNLRIPOGTGVQVMDLDRAYLVWRWEYSY 540
Db 481 LYKXKPHDVI SHEDGTLWRRTPKLLYPLGGQTNLRIPOGTGVQVMDLDRAYLVWRWEYSY 540
Qy 541 SSWTLFTCEIEMLLHVVSTADVIHQCRVKPTIIDLVHKVISTDLSIADCLLPITTSIYML 600
Db 541 SSWTLFTCEIEMLLHVVSTADVIHQCRVKPTIIDLVHKVISTDLSIADCLLPITTSIYML 600
Qy 601 LORLTVTISPVDVIVASVNCVCLTVLAARNPAKVTDLRHTGFLPPVAHPVSSLQMSIAE 660
Db 601 LORLTVTISPVDVIVASVNCVCLTVLAARNPAKVTDLRHTGFLPPVAHPVSSLQMSIAE 660
Qy 661 GNNAGGYGNLLNWSQPOGEYGVTTAFRLITLTVKQGLGTSQSGQLVPCVMFVLKEMLP 720
Db 661 GNNAGGYGNLLNWSQPOGEYGVTTAFRLITLTVKQGLGTSQSGQLVPCVMFVLKEMLP 720
Qy 721 SYHKWRVNSHGVEIQGILILELHAIINLCHETDLHSSHTPSLQFLCISLAYTEAGOT 780
Db 721 SYHKWRVNSHGVEIQGILILELHAIINLCHETDLHSSHTPSLQFLCISLAYTEAGOT 780
Qy 781 VINIMIGVDTIDMVMAAQPRSDGAGGQGGQLIKTVKLAPSVTNVIRLKPSPNVVSP 840
Db 781 VINIMIGVDTIDMVMAAQPRSDGAGGQGGQLIKTVKLAPSVTNVIRLKPSPNVVSP 840
Qy 841 LEQALSQHGAGHNNLIIVLAKYIYHKHDPALPRLAIQLLKRATVAPMSVVAACLGNDAAA 900
Db 841 LEQALSQHGAGHNNLIIVLAKYIYHKHDPALPRLAIQLLKRATVAPMSVVAACLGNDAAA 900
Qy 901 IRDAFLTRLOSKIEDMRKVMILEFTVAVETQPGLELFLNLEVKDGSKEFSLGW 960
Db 901 IRDAFLTRLOSKIEDMRKVMILEFTVAVETQPGLELFLNLEVKDGSKEFSLGW 960
Qy 961 SCLHAVLELIDSQODRYWCPPLHRAAIAFLHALWQDRRDSAMLVLRTPKPFENLTS 1020
Db 961 SCLHAVLELIDSQODRYWCPPLHRAAIAFLHALWQDRRDSAMLVLRTPKPFENLTS 1020
Qy 1021 LFGTLPSPSETSEPIETCALIMKICLEIYVYVKGSLDQSLKDTLKKFSEKFPAYWS 1080
Db 1021 LFGTLPSPSETSEPIETCALIMKICLEIYVYVKGSLDQSLKDTLKKFSEKFPAYWS 1080
Qy 1081 GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWMLIIATTHADIMHLTDSVVRQLFLDV 1140
Db 1081 GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWMLIIATTHADIMHLTDSVVRQLFLDV 1140
Qy 1141 LDGTKALLVPASVNCRLSGMKCTLLILLRQWKRELGSVDEILGPTLEILEGVLOAQD 1200

Db 1141 LDGTKALLVPASVNCRLSGMKCTLLILLRQWKRELGSVDEILGPTLEILEGVLOAQD 1200
Qy 1201 QLMKTKAKVFSAFITVLQMKEMKVSIPQYSQVLNVNVCETLQBEVIALFPQTRHSLAIG 1260
Db 1201 QLMKTKAKVFSAFITVLQMKEMKVSIPQYSQVLNVNVCETLQBEVIALFPQTRHSLAIG 1260
Qy 1261 SATEDKDSMETDDCSRSRHRDQDGVCLGHLAKELCEVDEDDGSLQVTRRLPILPTL 1320
Db 1261 SATEDKDSMETDDCSRSRHRDQDGVCLGHLAKELCEVDEDDGSLQVTRRLPILPTL 1320
Qy 1321 LTTLEVSIRMKONLHFTTEATLHLLTLARTOQGATAVAGAGITQSICLPLLSVYQLSTNG 1380
Db 1321 LTTLEVSIRMKONLHFTTEATLHLLTLARTOQGATAVAGAGITQSICLPLLSVYQLSTNG 1380
Qy 1381 TAQTPSASRKSLSLAPSPGVYRLSMLMEQLLKTLYNLFPEALDFVGVHQBRTILOCLNA 1440
Db 1381 TAQTPSASRKSLSLAPSPGVYRLSMLMEQLLKTLYNLFPEALDFVGVHQBRTILOCLNA 1440
Qy 1441 VRTVQSLACLBEADHTVGFILQLSNFMKWHFHLPOLMRDIOVNLGYLCOACTSLLHSRK 1500
Db 1441 VRTVQSLACLBEADHTVGFILQLSNFMKWHFHLPOLMRDIOVNLGYLCOACTSLLHSRK 1500
Qy 1501 MLQHYLVQNGDGLPSAVAQVRQPPPSAASAPSSSKQPAADTBASEQQALHTVQYGLLK 1560
Db 1501 MLQHYLVQNGDGLPSAVAQVRQPPPSAASAPSSSKQPAADTBASEQQALHTVQYGLLK 1560
Qy 1561 ILSKTLAALRHTPDVQCQILLDQSLDLAENFLFALSFTTPTFDSEVAPSGTLLATVNV 1620
Db 1561 ILSKTLAALRHTPDVQCQILLDQSLDLAENFLFALSFTTPTFDSEVAPSGTLLATVNV 1620
Qy 1621 ALNMGLDCKKBEPLTQAVGLSTQAEGRTRTKSLLMFTMENCIFYLLISQAMRYLRDPAVH 1680
Db 1621 ALNMGLDCKKBEPLTQAVGLSTQAEGRTRTKSLLMFTMENCIFYLLISQAMRYLRDPAVH 1680
Qy 1681 PRDQRMKQELSSSELSTLSSLSRYFRGAPSSPATGVLPSQPKSTSLSKASPSQBPL 1740
Db 1681 PRDQRMKQELSSSELSTLSSLSRYFRGAPSSPATGVLPSQPKSTSLSKASPSQBPL 1740
Qy 1741 IQLVQAFVRHMQR 1753
Db 1741 IQLVQAFVRHMQR 1753

RESULT 5

US-10-719-385-11
; Sequence 11, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10719,385
; PRIORITY FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 1753
; TYPE: PRN
; ORGANISM: Homo sapiens
US-10-719-385-11

Query Match 100.0%; Score 9004; DB 16; Length 1753;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1752; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIRKSKITSVLSPFCSSRELTIILGRSALRELSQIEALNKHWRRLLEGSLYKPPSPS 60
Db 1 MIRKSKITSVLSPFCSSRELTIILGRSALRELSQIEALNKHWRRLLEGSLYKPPSPS 60

61 SAEKVKANDVASPLKELGRLISKFLGLDBEQSVQLLQCYLQBDYRGTRDSVKTVLQDER 120
 61 SAEKVKANDVASPLKELGRLISKFLGLDBEQSVQLLQCYLQBDYRGTRDSVKTVLQDER 120
 121 QSQALILKIADYYEERTCILRCVLHLLTVFQDERHPYRVEYADCVDKLEKELVSKYRQ 180
 121 QSQALILKIADYYEERTCILRCVLHLLTVFQDERHPYRVEYADCVDKLEKELVSKYRQ 180
 181 FEELYKTEAPTETHGNLMTERQVSRWFVOCLEQSMLEIIFLYYAYFEMAPSDLLVLT 240
 181 FEELYKTEAPTETHGNLMTERQVSRWFVOCLEQSMLEIIFLYYAYFEMAPSDLLVLT 240
 241 KMFKEQGFGRQTNRLHVLDTMPPFVDRIGYFSAIILVEGMDIESLHKCALDDRRELHQF 300
 241 KMFKEQGFGRQTNRLHVLDTMPPFVDRIGYFSAIILVEGMDIESLHKCALDDRRELHQF 300
 301 AQDGLICQDMDCMLTFDGIPIHAPVLLAWALLRHTLNPEETS SVVRKIGGTAIQLNVFQ 360
 301 AQDGLICQDMDCMLTFDGIPIHAPVLLAWALLRHTLNPEETS SVVRKIGGTAIQLNVFQ 360
 361 YLTRLQSLASGNDCTTACMCVYGLLSFVLTSLELHGLGNQODIIDTACEVLADPSL 420
 361 YLTRLQSLASGNDCTTACMCVYGLLSFVLTSLELHGLGNQODIIDTACEVLADPSL 420
 421 PELFWGTEPTSGLGIILDSVCGMPPHLLSPLLQLLRALVSGKSTAKKVSFLDKMGFYNE 480
 421 PELFWGTEPTSGLGIILDSVCGMPPHLLSPLLQLLRALVSGKSTAKKVSFLDKMGFYNE 480
 481 LYKHKPHDVISHEGDTLWRQTPKLLYPLGQTNLRIPQGTGQVMDLDRAYILVRWEYSY 540
 481 LYKHKPHDVISHEGDTLWRQTPKLLYPLGQTNLRIPQGTGQVMDLDRAYILVRWEYSY 540
 541 SSWTLFCEIEMLLHVYSTADVIQHCORVKPIIDLHKVISTDLSTADCLLPTSRILYML 600
 541 SSWTLFCEIEMLLHVYSTADVIQHCORVKPIIDLHKVISTDLSTADCLLPTSRILYML 600
 601 LQRLTTVISPPVDVIAVCVNCCLTVLAARNPAKVTWDLRHTGFLFPFAHPVSSLSQMSIAE 660
 601 LQRLTTVISPPVDVIAVCVNCCLTVLAARNPAKVTWDLRHTGFLFPFAHPVSSLSQMSIAE 660
 661 GMAAGYGNLLMNSQPGQEGYGVTTIAFLRLITLTVKQGLGSTQSGVLVPCVMFVLEMLP 720
 661 GMAAGYGNLLMNSQPGQEGYGVTTIAFLRLITLTVKQGLGSTQSGVLVPCVMFVLEMLP 720
 721 SYHKWRVNSHGVRQICGLILELHAILNLCHETDLHSSHTPSLOFLCICLSLAYTEAGOT 780
 721 SYHKWRVNSHGVRQICGLILELHAILNLCHETDLHSSHTPSLOFLCICLSLAYTEAGOT 780
 781 VINIMGIGVDTIDVMAAQPRSDGAEQOGQOLLIKTVKLAFSVTNVIRLKPSPNVVSP 840
 781 VINIMGIGVDTIDVMAAQPRSDGAEQOGQOLLIKTVKLAFSVTNVIRLKPSPNVVSP 840
 841 LEQALSQHGAGNNLIJAVLAKYIYKHDPALPRLAIQLLKRLATVAPMSVYACLGNDAAA 900
 841 LEQALSQHGAGNNLIJAVLAKYIYKHDPALPRLAIQLLKRLATVAPMSVYACLGNDAAA 900
 901 IRDAFLTRLOSKIEDMKIKWILEFLTVAVETQGLIELFLNLVKDGSQGSKEFSLGWW 960
 901 IRDAFLTRLOSKIEDMKIKWILEFLTVAVETQGLIELFLNLVKDGSQGSKEFSLGWW 960
 961 SCLHAVLELIDSOQODRYWCPPLLHRAAIAFLHALWQDRDSDAMLVLRTPKFWENLTSP 1020
 961 SCLHAVLELIDSOQODRYWCPPLLHRAAIAFLHALWQDRDSDAMLVLRTPKFWENLTSP 1020
 1021 LFGTLSPPTSEPSILETALIMKIICLEIYYVVGKSLDQSLKDTLKKEFSIEKRFAYWS 1080
 1021 LFGTLSPPTSEPSILETALIMKIICLEIYYVVGKSLDQSLKDTLKKEFSIEKRFAYWS 1080
 1081 GYVKSIAVHVAETEGSSCTSLLEYOMLVSAWRMLLIATTHADIMHLLTDSVVRQLFLDV 1140
 1081 GYVKSIAVHVAETEGSSCTSLLEYOMLVSAWRMLLIATTHADIMHLLTDSVVRQLFLDV 1140
 1141 LDGTKALLLVPASVNCRLRGLSMKCTLLILLRQWKRELGSVDEILGLPTLBLEGLVQADQ 1200

1141 LDGTKALLLVPASVNCRLRGLSMKCTLLILLRQWKRELGSVDEILGLPTLBLEGLVQADQ 1200
 1201 OLMEKTKAKVFSAFITVLQMKEMKVSIDIPOYSQVLNVNVCETLOEVEIALFDOTRHSLALG 1260
 1201 OLMEKTKAKVFSAFITVLQMKEMKVSIDIPOYSQVLNVNVCETLOEVEIALFDOTRHSLALG 1260
 1261 SATEDKDSMETDDCSRRHRDQDGVCLGLHLAKELCEVDEGDSWLVQVTRRLPLPTL 1320
 1261 SATEDKDSMETDDCSRRHRDQDGVCLGLHLAKELCEVDEGDSWLVQVTRRLPLPTL 1320
 1321 LTTLEVSRLMKQNLHFEATLHLLLTARTQOGATAVAGAGITQSIICLPLLSVYQLSTNG 1380
 1321 LTTLEVSRLMKQNLHFEATLHLLLTARTQOGATAVAGAGITQSIICLPLLSVYQLSTNG 1380
 1381 TAQTPSASRKSILDAPSWGVRYSLSMSLMEQLLKTLYNLFPEALDFVGHQERTLOCLNA 1440
 1381 TAQTPSASRKSILDAPSWGVRYSLSMSLMEQLLKTLYNLFPEALDFVGHQERTLOCLNA 1440
 1441 VRTVQSLACLAEADHTVGFILQLSNFMKEMWHFHLPOLMRDIOVNLGYLCOACTSLLSHSRK 1500
 1441 VRTVQSLACLAEADHTVGFILQLSNFMKEMWHFHLPOLMRDIOVNLGYLCOACTSLLSHSRK 1500
 1501 MLQHYLQNKNGDGLPSAVARVORPPSAASAAPSSSKQPAADTEASEQQAALHTVQYGLLK 1560
 1501 MLQHYLQNKNGDGLPSAVARVORPPSAASAAPSSSKQPAADTEASEQQAALHTVQYGLLK 1560
 1561 ILSKTLAALRHFTPDVCOILLDOSLDLAEYNELFALSFTTPTFDSEVAPSGFLLATVNV 1620
 1561 ILSKTLAALRHFTPDVCOILLDOSLDLAEYNELFALSFTTPTFDSEVAPSGFLLATVNV 1620
 1621 ALNMLGELDKKEPLTOAVGLSTQAGSTRTLKSLMFTMENCIFYLLISQAMRYLRDPAVH 1680
 1621 ALNMLGELDKKEPLTOAVGLSTQAGSTRTLKSLMFTMENCIFYLLISQAMRYLRDPAVH 1680
 1681 PRDKQMKQELSELSTLLSSLSRYPRRGAPSPATGVLPSPOGKSTSLSKASPEQEP 1740
 1681 PRDKQMKQELSELSTLLSSLSRYPRRGAPSPATGVLPSPOGKSTSLSKASPEQEP 1740
 1741 IQLVQAFVRHMQR 1753
 1741 IQLVQAFVRHMQR 1753

RESULT 6

US-10-719-385-13
 ; Sequence 13, Application US/10719385
 ; Publication No. US20040209284A1
 ; GENERAL INFORMATION:
 ; APPLICANT: O'Toole et al.
 ; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
 ; FILE REFERENCE: 22058-582
 ; CURRENT APPLICATION NUMBER: US/10/719,385
 ; CURRENT FILING DATE: 2003-11-21
 ; PRIOR APPLICATION NUMBER: PCT/US03/37339
 ; PRIOR FILING DATE: 2003-11-21
 ; PRIOR APPLICATION NUMBER: 60/428,094
 ; PRIOR FILING DATE: 2002-11-21
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 13
 ; LENGTH: 1753
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-719-385-13

Query Match 100.0%; Score 9004; DB 16; Length 1753;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1752; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 1 MIRKSKITSVLSPCRSRELWTLILGRSALRELQSIAELNKHWRLLLEGLSYKPPSPS 60
 1 MIRKSKITSVLSPCRSRELWTLILGRSALRELQSIAELNKHWRLLLEGLSYKPPSPS 60

Qy 61 SAEKVKANKOVASPLKELGLRISKFGLDERQSVQLLQCYLOEDYRGTRDSVKTVLQDER 120
 Db 61 SAEKVKANKOVASPLKELGLRISKFGLDERQSVQLLQCYLOEDYRGTRDSVKTVLQDER 120
 Qy 121 QSOALILKIADYYEERTCIILCVLHLLTYFQDERHPYRVYADCVKLEKELVSKYRQ 180
 Db 121 QSOALILKIADYYEERTCIILCVLHLLTYFQDERHPYRVYADCVKLEKELVSKYRQ 180
 Qy 181 FEELYKTEAPWETHGNLWTERQSVRFVQCLRQSMLEIIFLYAYAFEMAPSDLLVLT 240
 Db 181 FEELYKTEAPWETHGNLWTERQSVRFVQCLRQSMLEIIFLYAYAFEMAPSDLLVLT 240
 Qy 241 KMFKEQFGSGQTRNHLVDETMDFVDRIGYFSALILVEGMDIESLHKCALDDRRRLHQF 300
 Db 241 KMFKEQFGSGQTRNHLVDETMDFVDRIGYFSALILVEGMDIESLHKCALDDRRRLHQF 300
 Qy 301 AQDGLICQDMCLMTFGDIIPHHAPVLLAWALLRHTLNPEETSSVVRKIGGTATQLNVFQ 360
 Db 301 AQDGLICQDMCLMTFGDIIPHHAPVLLAWALLRHTLNPEETSSVVRKIGGTATQLNVFQ 360
 Qy 361 YLTRLOSLASGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQDIIIDTACEVLADPSL 420
 Db 361 YLTRLOSLASGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQDIIIDTACEVLADPSL 420
 Qy 421 PELFWGTEPTSGLGIILDSVCGMFPPLHLSPLIQLLRALVSGKSTAKKYVSFLDKMSFYNE 480
 Db 421 PELFWGTEPTSGLGIILDSVCGMFPPLHLSPLIQLLRALVSGKSTAKKYVSFLDKMSFYNE 480
 Qy 481 LYKXKPHDVI SHEDGTLWRRTPKLLYPLGGTNRIRIPOGTGVQVMDRRAYLVRWEYSY 540
 Db 481 LYKXKPHDVI SHEDGTLWRRTPKLLYPLGGTNRIRIPOGTGVQVMDRRAYLVRWEYSY 540
 Qy 541 SSWTLFTCEIEMLLHVSTADVIQHCORVKPIIDLVHVKVISTDLSIADCLLPITSRIYML 600
 Db 541 SSWTLFTCEIEMLLHVSTADVIQHCORVKPIIDLVHVKVISTDLSIADCLLPITSRIYML 600
 Qy 601 LQRLTTVTSPPVDVVIASVNCVLTVLAAARNPAKVTDLRHTGFLPVAHPVSSLSQMSAE 660
 Db 601 LQRLTTVTSPPVDVVIASVNCVLTVLAAARNPAKVTDLRHTGFLPVAHPVSSLSQMSAE 660
 Qy 661 GNNAGGYGNLLMNSPOQEGYGVTTIAFLRLITTLVKGLGTSQSLVPCVMFVLKEMLP 720
 Db 661 GNNAGGYGNLLMNSPOQEGYGVTTIAFLRLITTLVKGLGTSQSLVPCVMFVLKEMLP 720
 Qy 721 SYHKRYNSHGVRQIGCLILIELIHAIIINLCHETDLHSSHTPSLOFLCICSLAYTEAGOT 780
 Db 721 SYHKRYNSHGVRQIGCLILIELIHAIIINLCHETDLHSSHTPSLOFLCICSLAYTEAGOT 780
 Qy 781 VININGIGVDTIDMVAAPRSDGAGOGQOLIKTVKLAFSVTNNVIRLKPNSNVVSP 840
 Db 781 VININGIGVDTIDMVAAPRSDGAGOGQOLIKTVKLAFSVTNNVIRLKPNSNVVSP 840
 Qy 841 LEQALSQHGAGNNLIIVLAKYIYHKHDPALPRLAIQLLKRATVAPMSVACIANDAAA 900
 Db 841 LEQALSQHGAGNNLIIVLAKYIYHKHDPALPRLAIQLLKRATVAPMSVACIANDAAA 900
 Qy 901 IRDAFLTRLOSKIEDMRIKWMTLEPITVAVETOPGLIELFLNLEVKDSDGSKFESLGMW 960
 Db 901 IRDAFLTRLOSKIEDMRIKWMTLEPITVAVETOPGLIELFLNLEVKDSDGSKFESLGMW 960
 Qy 961 SCLHAVLELIDSOQDRYWCPCPLLRRAAIFALHAWQDRRDSAMLVLRTPKFWENLTSP 1020
 Db 961 SCLHAVLELIDSOQDRYWCPCPLLRRAAIFALHAWQDRRDSAMLVLRTPKFWENLTSP 1020
 Qy 1021 LFGTSLSPSETSEPSILETCALIMKIICLEIYVYVKGSLDQSLKDTLKKFSEIKRFAYWS 1080
 Db 1021 LFGTSLSPSETSEPSILETCALIMKIICLEIYVYVKGSLDQSLKDTLKKFSEIKRFAYWS 1080
 Qy 1081 GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWRMLIIATTHADIMHLTDSVVRROFLDVLV 1140
 Db 1081 GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWRMLIIATTHADIMHLTDSVVRROFLDVLV 1140

Qy 1141 LDGTHALLVPASVNCILRGLSMKCTLLILLRQWKRELGSVDEILGPLETEILEGVLOADQ 1200
 Db 1141 LDGTHALLVPASVNCILRGLSMKCTLLILLRQWKRELGSVDEILGPLETEILEGVLOADQ 1200
 Qy 1201 QLMKTKAKVFSAFITVLQMKEMKVSIDIPQYSQVLVNCETLQBEVIALFPQTRHSLAG 1260
 Db 1201 QLMKTKAKVFSAFITVLQMKEMKVSIDIPQYSQVLVNCETLQBEVIALFPQTRHSLAG 1260
 Qy 1261 SATDKDSMETDDCSRSRHRDQDQVGLGLHLAKELCEVEDGDSWLVQVTRRPLPILPTL 1320
 Db 1261 SATDKDSMETDDCSRSRHRDQDQVGLGLHLAKELCEVEDGDSWLVQVTRRPLPILPTL 1320
 Qy 1321 LTTLEVSIRMKQNLHTEATLHLLTLARTQOGATAVAGAGITQSICLPILSVQLSTNG 1380
 Db 1321 LTTLEVSIRMKQNLHTEATLHLLTLARTQOGATAVAGAGITQSICLPILSVQLSTNG 1380
 Qy 1381 TAQTPSASRSLDAPSMPGVYRLSMLMEQLLKTLYNLFPEALDFVGVHQBRTLOCLNA 1440
 Db 1381 TAQTPSASRSLDAPSMPGVYRLSMLMEQLLKTLYNLFPEALDFVGVHQBRTLOCLNA 1440
 Qy 1441 VRTVQSLACLBEADHTVGFILQLSNFMKWHFHLPLQMRDIQVNLGYLCOACTSLLHSRK 1500
 Db 1441 VRTVQSLACLBEADHTVGFILQLSNFMKWHFHLPLQMRDIQVNLGYLCOACTSLLHSRK 1500
 Qy 1501 MLQHYLQNGDGLPSAQAQVQRPSSAASAPSSSKQPAADTEASEQOALHTVQYGLLK 1560
 Db 1501 MLQHYLQNGDGLPSAQAQVQRPSSAASAPSSSKQPAADTEASEQOALHTVQYGLLK 1560
 Qy 1561 ILSKTLAALRHFTPDVCOILLADQSLDAEYNFLPALSETTTTFDSEVAPSGTLLATVNV 1620
 Db 1561 ILSKTLAALRHFTPDVCOILLADQSLDAEYNFLPALSETTTTFDSEVAPSGTLLATVNV 1620
 Qy 1621 ALNMLGELDKKKEPLTOAVGLSTQAEGRTRTLKSLMFTMENCIFYLLISQAMRYLRDPAVH 1680
 Db 1621 ALNMLGELDKKKEPLTOAVGLSTQAEGRTRTLKSLMFTMENCIFYLLISQAMRYLRDPAVH 1680
 Qy 1681 PRDKQMKQELSELSTLSSLSRYFRGAPSSPATGVLPSPQKSTSLSKASPSQBP 1740
 Db 1681 PRDKQMKQELSELSTLSSLSRYFRGAPSSPATGVLPSPQKSTSLSKASPSQBP 1740
 Qy 1741 IOLVQAFVRHMOR 1753
 Db 1741 IOLVQAFVRHMOR 1753

RESULT 7
 US-10-719-385-14
 ; Sequence 14, Application US/10719385
 ; Publication No. US20040209284A1
 ; GENERAL INFORMATION:
 ; APPLICANT: O'Toole et al.
 ; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
 ; FILE REFERENCE: 22058-582
 ; CURRENT APPLICATION NUMBER: US/10/719,385
 ; PRIOR FILING DATE: 2003-11-21
 ; PRIOR APPLICATION NUMBER: PCT/US03/37339
 ; PRIOR FILING DATE: 2003-11-21
 ; PRIOR APPLICATION NUMBER: 60/428,094
 ; PRIOR FILING DATE: 2002-11-21
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: Patent in Ver. 2.1
 ; SEQ ID NO 14
 ; LENGTH: 1753
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-719-385-14

Query Match 100.0%; Score 9004; DB 16; Length 1753;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1752; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIRKSKITSVLSCFCSRSRELWTILGRSALRELQIBALNKHWRLEGLSYKPPSPS 60
 |||||

Db .
1 MIRSKITSVLSPCRSSRELWTLILGRSALRELSQIEAEINLKHWRLLLEGLSYKPPSPS 60
Qy
61 SAEKVANKDVASPLKELGRIISKFLGLDEQSVQLLQCYLQEDYRGTRDSVKTVLQDER 120
Db
61 SAEKVANKDVASPLKELGURIISKFLGLDEQSVQLLQCYLQEDYRGTRDSVKTVLQDER 120
Qy
121 QSQUALILKIADYYEERTCILRCVHLITVYFQDERHPYRVEYADCVDKLEKELSVKYRQ 180
Db
121 QSQUALILKIADYYEERTCILRCVHLITVYFQDERHPYRVEYADCVDKLEKELSVKYRQ 180
Qy
181 FEELYTEAPTWEETHGNLMTQVSRWFVQCLREQSMLLEIIIFYAYFEMASDDLVLVT 240
Db
181 FEELYTEAPTWEETHGNLMTQVSRWFVQCLREQSMLLEIIIFYAYFEMASDDLVLVT 240
Qy
241 KMFKEQFGSROTRNHLVDSTMPFVDRIQYFSNALILVEGMDIESLHKCALDRRELHQF 300
Db
241 KMFKEQFGSROTRNHLVDSTMPFVDRIQYFSNALILVEGMDIESLHKCALDRRELHQF 300
Qy
301 AQOGLICQDMDCMLMTFGDIPHPAPVLLAWALLRHTILNPEETS SVVRKIGGTAIQLNVFQ 360
Db
301 AQOGLICQDMDCMLMTFGDIPHPAPVLLAWALLRHTILNPEETS SVVRKIGGTAIQLNVFQ 360
Qy
361 YLTRLQSLASGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQDIIIDTACEVLADPSL 420
Db
361 YLTRLQSLASGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQDIIIDTACEVLADPSL 420
Qy
421 PELFWGTEPTSGLGIILDSVCGMFPPLLSPLLOLRLALVSGKSTAKKVSFLDKMSFYNE 480
Db
421 PELFWGTEPTSGLGIILDSVCGMFPPLLSPLLOLRLALVSGKSTAKKVSFLDKMSFYNE 480
Qy
481 LYKXKHPHDVISHEDGTLWRRTPKLXPLGQGNLRIPOQTVGQVMDLDRAYILVRWEYSY 540
Db
481 LYKXKHPHDVISHEDGTLWRRTPKLXPLGQGNLRIPOQTVGQVMDLDRAYILVRWEYSY 540
Qy
541 SSWTLFTCEIEMLLHVSTADVIOHCOVRKPIIDLHVKVISTDLSTADCLLPITSRIYML 600
Db
541 SSWTLFTCEIEMLLHVSTADVIOHCOVRKPIIDLHVKVISTDLSTADCLLPITSRIYML 600
Qy
601 LQRLTTVISPPVDVIAVCNCLTVLAARNPAKWTDLRHGELPFVAHPVSSLSQMSIAE 660
Db
601 LQRLTTVISPPVDVIAVCNCLTVLAARNPAKWTDLRHGELPFVAHPVSSLSQMSIAE 660
Qy
661 GNNAGGYGNLMMNSEQPQGEYGVITAFRLITLTVKGQLGSTQSGGLVPCVMFVKEMLP 720
Db
661 GNNAGGYGNLMMNSEQPQGEYGVITAFRLITLTVKGQLGSTQSGGLVPCVMFVKEMLP 720
Qy
721 SYHKWRYNSHGVREIQICLILELIHAILNLCHETDLHSSHTPSLQFLCISLAYTEAGQT 780
Db
721 SYHKWRYNSHGVREIQICLILELIHAILNLCHETDLHSSHTPSLQFLCISLAYTEAGQT 780
Qy
781 VINIMGIGVDTIDMWAAQPRSDGAGOGQGLLIKTVKLAFSVTNVNIIRLKPSPNVSP 840
Db
781 VINIMGIGVDTIDMWAAQPRSDGAGOGQGLLIKTVKLAFSVTNVNIIRLKPSPNVSP 840
Qy
841 LEQALSOHGAHGNLILAVLAKYIYHKHDPALPRALIQLLKRLATVAPMSVYACLGNDAAA 900
Db
841 LEQALSOHGAHGNLILAVLAKYIYHKHDPALPRALIQLLKRLATVAPMSVYACLGNDAAA 900
Qy
901 IRDAFLTRLQSKIEDMRIKWIMLEFVLVAVETOPGLIELFNLEVKDGSQKSFSLGMW 960
Db
901 IRDAFLTRLQSKIEDMRIKWIMLEFVLVAVETOPGLIELFNLEVKDGSQKSFSLGMW 960
Qy
961 SCULHAVLELDSOODRWYCPPLLHRAAIAFLHALWQDRDSAMLVLRTKPKWENLTSP 1020
Db
961 SCULHAVLELDSOODRWYCPPLLHRAAIAFLHALWQDRDSAMLVLRTKPKWENLTSP 1020
Qy
1021 LFGTLPSPSETSEPSILETCALIMKIIICLEYIYVVGSLDQSLKDTLTKFSEIEKRFAYWS 1080
Db
1021 LFGTLPSPSETSEPSILETCALIMKIIICLEYIYVVGSLDQSLKDTLTKFSEIEKRFAYWS 1080
Qy
1081 GYVKSLAVHVAETEGSSCTSLLEYQMLVSAWRMLLIITATHADIMHLTDSVVRQLFLDV 1140
Db
1081 GYVKSLAVHVAETEGSSCTSLLEYQMLVSAWRMLLIITATHADIMHLTDSVVRQLFLDV 1140

Qy 1141 LDGTKALLVPASVNCNLRGSMKCTLLILLROWKRELGSVDILGPLEILGVLQADQ 1200
Db 1141 LDGTKALLVPASVNCNLRGSMKCTLLILLROWKRELGSVDILGPLEILGVLQADQ 1200
Qy 1201 QLMKTKAKVFSAFITVLQMKEMKVSIDIPOYSQVLNVNVCETLOEVEIALFDQTRHSLALG 1260
Db 1201 QLMKTKAKVFSAFITVLQMKEMKVSIDIPOYSQVLNVNVCETLOEVEIALFDQTRHSLALG 1260
Qy 1261 SATEDKDSMETDDCSRRHRDQDGVCLGLHLAKELCEVDEGDSWLVQVTRRLPILPTL 1320
Db 1261 SATEDKDSMETDDCSRRHRDQDGVCLGLHLAKELCEVDEGDSWLVQVTRRLPILPTL 1320
Qy 1321 LTTLEVSRLMKQNLHTEATLHLLTLARTQOGATAVAGAGITQSTICLPLLSVYQLSTNG 1380
Db 1321 LTTLEVSRLMKQNLHTEATLHLLTLARTQOGATAVAGAGITQSTICLPLLSVYQLSTNG 1380
Qy 1381 TAQTPSASRKS LDAPS WPGVYRSLMSLMBQLLKTLYNLFPEALDFVGVHQRERTLOCLNA 1440
Db 1381 TAQTPSASRKS LDAPS WPGVYRSLMSLMBQLLKTLYNLFPEALDFVGVHQRERTLOCLNA 1440
Qy 1441 VRTVQSILACLEADHTVGFILQLSNFMKSWHHLPOLMRDIOVNLGVLCOACTSLHLSRK 1500
Db 1441 VRTVQSILACLEADHTVGFILQLSNFMKSWHHLPOLMRDIOVNLGVLCOACTSLHLSRK 1500
Qy 1501 MLQHYLQNKNGDGLPSAVQORVORPPSAASAAPSSSKQPAADTEASEQQAALHTVQYGLLK 1560
Db 1501 MLQHYLQNKNGDGLPSAVQORVORPPSAASAAPSSSKQPAADTEASEQQAALHTVQYGLLK 1560
Qy 1561 ILSKTLAALRHFTPDVVCQILLQSDLDLAEYNFLFALSTFTPTPDSEVAPSGTLLATVNV 1620
Db 1561 ILSKTLAALRHFTPDVVCQILLQSDLDLAEYNFLFALSTFTPTPDSEVAPSGTLLATVNV 1620
Qy 1621 ALNMLGELDKKKEPLTQAVCLSTQAEGRTRLKSLMFTMENCIFYLLISOAMRYLRDPVAVH 1680
Db 1621 ALNMLGELDKKKEPLTQAVCLSTQAEGRTRLKSLMFTMENCIFYLLISOAMRYLRDPVAVH 1680
Qy 1681 PRDKQRMKQELSELSTLLSSLSRYFRRGAPSSPATGVLPSPQGSTSLSKASPEQEPL 1740
Db 1681 PRDKQRMKQELSELSTLLSSLSRYFRRGAPSSPATGVLPSPQGSTSLSKASPEQEPL 1740
Qy 1741 IQLVQAFVRHMQR 1753
Db 1741 IQLVQAFVRHMQR 1753

RESULT 8

US-10-719-385-15
; Sequence 15, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10/719,385
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 1753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-719-385-15

Query Match 100.0%; Score 9003; DB 16; Length 1753;
Best Local Similarity 99.9%; Pred.No. 0;
Matches 1751; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIRSKITSVLSPCRSSRELWTLILGRSALRELSQIEAEINLKHWRLLLEGLSYKPPSPS 60

Db 1 MIRSKITSVLSFCRSSRELITLLGRSALRELSQIEAELNKHWRRLLEGSLYKPPSPS 60
Qy 61 SAEKVKANDVASPLKELGRLISKFLGDBEQSVOLLQCYLOEDYGRTRDSVKTVLQDER 120
Db 61 SAEKVKANDVASPLKELGRLISKFLGDBEQSVOLLQCYLOEDYGRTRDSVKTVLQDER 120
Qy 121 QSQUALILKIADYYEERTCILRCVLHLLTVFQDERHPYRVEYACVDVKELVSKYRQQ 180
Db 121 QSQUALILKIADYYEERTCILRCVLHLLTVFQDERHPYRVEYACVDVKELVSKYRQQ 180
Qy 181 FEELYKTEATWETHGNLWTERQVSRWFVQCLREQSMLEBIIIFLYYAYPEWASDILLVLT 240
Db 181 FEELYKTEATWETHGNLWTERQVSRWFVQCLREQSMLEBIIIFLYYAYPEWASDILLVLT 240
Qy 241 KMFKEQCGFSGRQNRHLVDETMDFVDRIGYFSALILVEGMDTESLHKCALDDRRRELHQF 300
Db 241 KMFKEQCGFSGRQNRHLVDETMDFVDRIGYFSALILVEGMDTESLHKCALDDRRRELHQF 300
Qy 301 AQDGLICQDMDCMLMFTGDIPIHAPVILLAWALLRHTILNPEETSSVVRKIIGTAIQLNVFQ 360
Db 301 AQDGLICQDMDCMLMFTGDIPIHAPVILLAWALLRHTILNPEETSSVVRKIIGTAIQLNVFQ 360
Qy 361 YLTRLLQSLASGNDCTTSTACMCVYGLLSFLVTSLELHTLGNQODIIDTACEVLADPSL 420
Db 361 YLTRLLQSLASGNDCTTSTACMCVYGLLSFLVTSLELHTLGNQODIIDTACEVLADPSL 420
Qy 421 PELFWGTEPTSGLGIILDSVCGMPHLLSPLQLLRALVSGSKTAKKVFYFLDKMSFYNE 480
Db 421 PELFWGTEPTSGLGIILDSVCGMPHLLSPLQLLRALVSGSKTAKKVFYFLDKMSFYNE 480
Qy 481 LYKHKPHDVISHEDGTLWRRQTPKLLYPLGQTNLRIPQGTGVQWMLDDRAYLVRWEYSY 540
Db 481 LYKHKPHDVISHEDGTLWRRQTPKLLYPLGQTNLRIPQGTGVQWMLDDRAYLVRWEYSY 540
Qy 541 SSWTLFTCEIEMLLHVSTADVIQHCORVKPIIDLVHKVISTDLSIADCLLPITSRIMYL 600
Db 541 SSWTLFTCEIEMLLHVSTADVIQHCORVKPIIDLVHKVISTDLSIADCLLPITSRIMYL 600
Qy 601 LQRLTTVISPPVDVIVASVNCCLTVLAARNPAKWTDLRHTGFLPFVAHPVSSLSQMSIAE 660
Db 601 LQRLTTVISPPVDVIVASVNCCLTVLAARNPAKWTDLRHTGFLPFVAHPVSSLSQMSIAE 660
Qy 661 GMAAGGYGNLLMNSQEQEGYGVITAFRLITTLVKGLGQSTQSGLVPCVMFVKEMLP 720
Db 661 GMAAGGYGNLLMNSQEQEGYGVITAFRLITTLVKGLGQSTQSGLVPCVMFVKEMLP 720
Qy 721 SYHKWRYNHSGVREIQICGLILELHAILNLCHETDLSSHSTPSLOFLICISLAYTEAGQT 780
Db 721 SYHKWRYNHSGVREIQICGLILELHAILNLCHETDLSSHSTPSLOFLICISLAYTEAGQT 780
Qy 781 VINIMGIGVDITDMVMAQPSDGAEGOGQOLIKTVKLAFSVTNVIRLKPNSNVSP 840
Db 781 VINIMGIGVDITDMVMAQPSDGAEGOGQOLIKTVKLAFSVTNVIRLKPNSNVSP 840
Qy 841 LEQALSOHGAHGNLLIAVLAKYIYKHGDPALPRLAIQLLKLATVAPMSVYACLGNDAAA 900
Db 841 LEQALSOHGAHGNLLIAVLAKYIYKHGDPALPRLAIQLLKLATVAPMSVYACLGNDAAA 900
Qy 901 IRDAFLTRLOKSIEDMRIKVMILBFLTVAVETQGLIELFLNLEVKDGSCKEFSLGMMW 960
Db 901 IRDAFLTRLOKSIEDMRIKVMILBFLTVAVETQGLIELFLNLEVKDGSCKEFSLGMMW 960
Qy 961 SCLHAVLELIDSOQDRVWCPLHRAAIFLHALWQDRRDSAMLVLRKPKFWENLTSP 1020
Db 961 SCLHAVLELIDSOQDRVWCPLHRAAIFLHALWQDRRDSAMLVLRKPKFWENLTSP 1020
Qy 1021 LFGTLSPSETSEPSILETCALIMKIICLEYIYVVKGLSDQSLDKTLKKFSIEKRFAYWS 1080
Db 1021 LFGTLSPSETSEPSILETCALIMKIICLEYIYVVKGLSDQSLDKTLKKFSIEKRFAYWS 1080
Qy 1081 GYVKS LAVHVAETEGSSCTSLLEYQMLVSAWRMLLIATTHADIMHLTDSVVRQLFLDV 1140

Db 1081 GYVKS LAVHVAETEGSSCTSLLEYQMLVSAWRMLLIATTHADIMHLTDSVVRQLFLDV 1140
Qy 1141 LDGTKALLLVASVNCCLRLGSMCKTLLLIILLRQWKRELGSVDEILGPLETEILEGVLOADQ 1200
Db 1141 LDGTKALLLVASVNCCLRLGSMCKTLLLIILLRQWKRELGSVDEILGPLETEILEGVLOADQ 1200
Qy 1201 OLMEKTKAKVPSAFITVLQMKEMKVSIDIPOYSOLVNLVNCETLOEBEVLTALFDOTRHSALG 1260
Db 1201 OLMEKTKAKVPSAFITVLQMKEMKVSIDIPOYSOLVNLVNCETLOEBEVLTALFDOTRHSALG 1260
Qy 1261 SATDEKDSMETDDCSRSRHRDQDQVCGVLGLHLAKELCEVDEDEGDSMLQVTRRILPILPTL 1320
Db 1261 SATDEKDSMETDDCSRSRHRDQDQVCGVLGLHLAKELCEVDEDEGDSMLQVTRRILPILPTL 1320
Qy 1321 LTTLEVS LRMKQNLHTEATLHLLLTARTQOGATAVAGAGITQSIICLPILLSVYQLSTNG 1380
Db 1321 LTTLEVS LRMKQNLHTEATLHLLLTARTQOGATAVAGAGITQSIICLPILLSVYQLSTNG 1380
Qy 1381 TAQTPSASRSKSLDAPSPGWYRLSMLSMEQLLKTLYNLFPEALDFVGVHOERTLOCLNA 1440
Db 1381 TAQTPSASRSKSLDAPSPGWYRLSMLSMEQLLKTLYNLFPEALDFVGVHOERTLOCLNA 1440
Qy 1441 VRTVQSLACLCEADHTVGFILQSLNFMKEWHFHLPOLMRDIQVNLGYLCOACTSLLHSRK 1500
Db 1441 VRTVQSLACLCEADHTVGFILQSLNFMKEWHFHLPOLMRDIQVNLGYLCOACTSLLHSRK 1500
Qy 1501 MLQHYLQNKNGDGLPSAVAQVRQPPSAASAAPSSKQPAADTEASBQOALHTVYGLLK 1560
Db 1501 MLQHYLQNKNGDGLPSAVAQVRQPPSAASAAPSSKQPAADTEASBQOALHTVYGLLK 1560
Qy 1561 ILSKTLAALRHPTPDVCQIILLQSLDLAEYNFLPALSFPTTPTFSEVAPSGTLLATVNV 1620
Db 1561 ILSKTLAALRHPTPDVCQIILLQSLDLAEYNFLPALSFPTTPTFSEVAPSGTLLATVNV 1620
Qy 1621 ALNMLGDLKKKPLETOAVGLSTQAEGRITLKSLLMETMENCYLLISQAMRYLRDPAVH 1680
Db 1621 ALNMLGDLKKKPLETOAVGLSTQAEGRITLKSLLMETMENCYLLISQAMRYLRDPAVH 1680
Qy 1681 PRDKQRMKQELSELSELSTLLSSLRYPFRGAPSPATGVLPSPQCKSTSLSKASPESEPL 1740
Db 1681 PRDKQRMKQELSELSELSTLLSSLRYPFRGAPSPATGVLPSPQCKSTSLSKASPESEPL 1740
Qy 1741 IQLVQAFVRHMQR 1753
Db 1741 IQLVQAFVRHMQR 1753

RESULT 9

US-10-719-385-6
; Sequence 6, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10719,385
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-719-385-6

Query Match 99.9%; Score 9002; DB 16; Length 1753;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1752; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MIRKSKITVSGFRSSRELWTLLGRSALRELSQIEAELNKHWRLLLEGLSYKPPSPS 60
DB 1 MIRKSKITVSGFRSSRELWTLLGRSALRELSQIEAELNKHWRLLLEGLSYKPPSPS 60
QY 61 SAEKVANKDVASPLKELGRISKFGLEBOSVQLQCYQEDYRGTRDSVKTVLQDER 120
DB 61 SAEKVANKDVASPLKELGRISKFGLEBOSVQLQCYQEDYRGTRDSVKTVLQDER 120
QY 121 QSQALILKADIYYBERTCIGLCVLLHLYFQDERHPYRVEVADCVDKLEKELVSKYRQ 180
DB 121 QSQALILKADIYYBERTCIGLCVLLHLYFQDERHPYRVEVADCVDKLEKELVSKYRQ 180
QY 181 FEELYKTEAPTETHGNLMTERQVSWFVQCIREQSMLEIIFLYYAYFEMAPSLLVLT 240
DB 181 FEELYKTEAPTETHGNLMTERQVSWFVQCIREQSMLEIIFLYYAYFEMAPSLLVLT 240
QY 241 KMFKEQSGFRQTNRLHVDTEWDPFVDRIYGFYSALILVEGMDIESLHKCALDDRRELHQF 300
DB 241 KMFKEQSGFRQTNRLHVDTEWDPFVDRIYGFYSALILVEGMDIESLHKCALDDRRELHQF 300
QY 301 AODGLICQDMCLMLTFGDI PHAPVLLAWALLRHTLNPEETSSVVRKIGGTAIQLNVFO 360
DB 301 AODGLICQDMCLMLTFGDI PHAPVLLAWALLRHTLNPEETSSVVRKIGGTAINLNVFO 360
QY 361 YLTRLLQSLASGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQDDI IDTACEVLADPSL 420
DB 361 YLTRLLQSLASGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQDDI IDTACEVLADPSL 420
QY 421 PELFWGTEPTSGIILDSVCGMFPPLLSPLQLLRALVSGKSTAKKVYSPFLDKMSFYNE 480
DB 421 PELFWGTEPTSGIILDSVCGMFPPLLSPLQLLRALVSGKSTAKKVYSPFLDKMSFYNE 480
QY 481 LYKHKPHDVISHEBDGLWRRQTKLIYPLGGQTNLRIPQGTVCQVMDLDRAYLVRWEYSY 540
DB 481 LYKHKPHDVISHEBDGLWRRQTKLIYPLGGQTNLRIPQGTVCQVMDLDRAYLVRWEYSY 540
QY 541 SSWTLFTCEMLLHVSTADVIQHCRVKPIIDLVKHVISTDLSADCLLPITTSIYML 600
DB 541 SSWTLFTCEMLLHVSTADVIQHCRVKPIIDLVKHVISTDLSADCLLPITTSIYML 600
QY 601 LQRLTTVISPPVDVIAVSCNCLTVLAARNPAKVTDLRHTGFLPFVAHPVSSLSQMSIAE 660
DB 601 LQRLTTVISPPVDVIAVSCNCLTVLAARNPAKVTDLRHTGFLPFVAHPVSSLSQMSIAE 660
QY 661 GNNAGGYGNLLMNSBOQEGYGTIAFLRLITTLVKQLGSTQSGIIVPCVMFVLKMLP 720
DB 661 GNNAGGYGNLLMNSBOQEGYGTIAFLRLITTLVKQLGSTQSGIIVPCVMFVLKMLP 720
QY 721 SYHKWRYNSHGVREQIGCLILELIHAILNLCHETDLHSSHTPSLQFLCISLAYTEAGOT 780
DB 721 SYHKWRYNSHGVREQIGCLILELIHAILNLCHETDLHSSHTPSLQFLCISLAYTEAGOT 780
QY 781 VINIMGIGVDTIDMVMAAQPRSDGABGQGGQQLIKTVKLAFSVTNVIRLKPSPNVSP 840
DB 781 VINIMGIGVDTIDMVMAAQPRSDGABGQGGQQLIKTVKLAFSVTNVIRLKPSPNVSP 840
QY 841 LEQALSQHGAGHNNLAVLAKIYHKHDPALPLATQLLKRLATVAPMSYIACLGNDAAA 900
DB 841 LEQALSQHGAGHNNLAVLAKIYHKHDPALPLATQLLKRLATVAPMSYIACLGNDAAA 900
QY 901 IRDAFLTRLOSKIEDMRIKWIMLEFIVAVETOPGLIELFLNLEVKGDSGKSEFSLGHW 960
DB 901 IRDAFLTRLOSKIEDMRIKWIMLEFIVAVETOPGLIELFLNLEVKGDSGKSEFSLGHW 960
QY 961 SCLHAVLELIDSQODRYWCPPLLHRAAIAFLHALWQDRDSAMLVLRTKPKFWENLTSP 1020
DB 961 SCLHAVLELIDSQODRYWCPPLLHRAAIAFLHALWQDRDSAMLVLRTKPKFWENLTSP 1020
QY 1021 LFGTLSPSPSTSPSILETCALIMKIICLIYIYVVKSLDQSLKDTLKKFSIEKRFAYWS 1080
DB 1021 LFGTLSPSPSTSPSILETCALIMKIICLIYIYVVKSLDQSLKDTLKKFSIEKRFAYWS 1080
QY 1081 GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWRMLLIATTHADIMHLTDSVVRQLFLDV 1140

DB 1081 GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWRMLLIATTHADIMHLTDSVVRQLFLDV 1140
QY 1141 LDGTKALLVVPASVNCRLRSGMKCTILLILLBQWKRELGSVDEIILGPLEIIEGVLOADQ 1200
DB 1141 LDGTKALLVVPASVNCRLRSGMKCTILLILLBQWKRELGSVDEIILGPLEIIEGVLOADQ 1200
QY 1201 QLMEXTKAKVFAFIVLQMKEMKYSVDIPOYSQVLNVNVCETLQEEVIALFDOTRHSIALG 1260
DB 1201 QLMEXTKAKVFAFIVLQMKEMKYSVDIPOYSQVLNVNVCETLQEEVIALFDOTRHSIALG 1260
QY 1261 SATEDKDSMETDDCSRSRHRDQDGVCVLGLHLAKELCEVDEDDGDSWLVQVTRRLPLPTL 1320
DB 1261 SATEDKDSMETDDCSRSRHRDQDGVCVLGLHLAKELCEVDEDDGDSWLVQVTRRLPLPTL 1320
QY 1321 LITLTVSLBMKNLHFTTEATLHLLTLARTOQATAVAGAGITQSTICLPLLSVYQLSTNG 1380
DB 1321 LITLTVSLBMKNLHFTTEATLHLLTLARTOQATAVAGAGITQSTICLPLLSVYQLSTNG 1380
QY 1381 TAQTPSASRKSILDAPSPGVYRLSMLMEQLLTKLRYNLFPEALDFVGVHQERTLQCLNA 1440
DB 1381 TAQTPSASRKSILDAPSPGVYRLSMLMEQLLTKLRYNLFPEALDFVGVHQERTLQCLNA 1440
QY 1441 VRTVQSLACLSEADHTVGFILQLSNFMKEWHFHLPOLMRDIOVNLYLCOACTSLLSHRK 1500
DB 1441 VRTVQSLACLSEADHTVGFILQLSNFMKEWHFHLPOLMRDIOVNLYLCOACTSLLSHRK 1500
QY 1501 MLQHYLQNKNGDGLPSAVAQVRPPSAASAAPSSSKQPAADTEASEQQALHTVQYGLLK 1560
DB 1501 MLQHYLQNKNGDGLPSAVAQVRPPSAASAAPSSSKQPAADTEASEQQALHTVQYGLLK 1560
QY 1561 ILSKTLAALRHFTTPDVCOILLDQSLDLAENFLFALSFTTPTFDSVAPSFGLTLATVNV 1620
DB 1561 ILSKTLAALRHFTTPDVCOILLDQSLDLAENFLFALSFTTPTFDSVAPSFGLTLATVNV 1620
QY 1621 ALNMLGELDKKKEPLTQAVGLSTQAEGRTRLKSLMFTWENCIFYLLISOAMRYLRDPAVH 1680
DB 1621 ALNMLGELDKKKEPLTQAVGLSTQAEGRTRLKSLMFTWENCIFYLLISOAMRYLRDPAVH 1680
QY 1681 PRDKQMKQELSELSLTLSSLSRFRRCAPSPATGVLPSPQKSTSLSKASPESQEPL 1740
DB 1681 PRDKQMKQELSELSLTLSSLSRFRRCAPSPATGVLPSPQKSTSLSKASPESQEPL 1740
QY 1741 IOLVQAFVRHMOR 1753
DB 1741 IOLVQAFVRHMOR 1753

RESULT 10

US-10-719-385-10
; Sequence 10, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10/719,385
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 1753
; TYPE: PR1
; ORGANISM: Homo sapiens
US-10-719-385-10

Query Match 99.9%; Score 9002; DB 16; Length 1753;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1752; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIRSKITSVLISFCRSSLRELWTILGRSALRELSQIEAELNKHRRRLLEGLSYKPPSPS 60
Db 1 MIRSKITSVLISFCRSSLRELWTILGRSALRELSQIEAELNKHRRRLLEGLSYKPPSPS 60
Qy 61 SAEKVKANKVASPLKELGLRISKFLGDLDEBSQVOLLOCYLOEDYGRTRDSVKTVLQDER 120
Db 61 SAEKVKANKVASPLKELGLRISKFLGDLDEBSQVOLLOCYLOEDYGRTRDSVKTVLQDER 120
Qy 121 OSQALILKIAADYYEERTCIILRCVLHLLTYFQDERHPYRVYADCVCKLEKELVSKYKROQ 180
Db 121 OSQALILKIAADYYEERTCIILRCVLHLLTYFQDERHPYRVYADCVCKLEKELVSKYKROQ 180
Qy 181 FEELYKTEAPTWETHGNLMTQVSRVFWQCLREQSMLEIIIFLYAYFEMAPSDLLVLT 240
Db 181 FEELYKTEAPTWETHGNLMTQVSRVFWQCLREQSMLEIIIFLYAYFEMAPSDLLVLT 240
Qy 241 KMFKEQGSQVTRHVLVDETMDFVDRIGYFSALILVEGMDIESLHKALDDDBRELHQF 300
Db 241 KMFKEQGSQVTRHVLVDETMDFVDRIGYFSALILVEGMDIESLHKALDDDBRELHQF 300
Qy 301 AODGLICODMCLMTFGDIIPHAAPVLLAWALLRHTLNPEETSSVVRKIGGTALQLNVFQ 360
Db 301 AODGLICODMCLMTFGDIIPHAAPVLLAWALLRHTLNPEETSSVVRKIGGTALQLNVFQ 360
Qy 361 YLTRLLQSLASGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQDIIIDTACEVLADPSL 420
Db 361 YLTRLLQSLASGNDCTTSTACMCVYGLLSFVLTSLELHTLGNQDIIIDTACEVLADPSL 420
Qy 421 PELFWGTPTSGLGIILDSVCGMPHLLSPQLQLRALVSGKSTAKKVSFLDKMSFYNE 480
Db 421 PELFWGTPTSGLGIILDSVCGMPHLLSPQLQLRALVSGKSTAKKVSFLDKMSFYNE 480
Qy 481 LYKXKPHDVI SHEDGTLWRROTPKLLYPLGGQTNLRIPOGTVGQVMDLDRAYLVRWEYSY 540
Db 481 LYKXKPHDVI SHEDGTLWRROTPKLLYPLGGQTNLRIPOGTVGQVMDLDRAYLVRWEYSY 540
Qy 541 SSWTLFTCEIEMLLHVSTADVIQHCORVKPIIDLHVHVI STDLSIADCLLPITSRIYML 600
Db 541 SSWTLFTCEIEMLLHVSTADVIQHCORVKPIIDLHVHVI STDLSIADCLLPITSRIYML 600
Qy 601 LQRLTTVISPVDVVIASVNCVLTVLAARNPAKWTDLRHTGFLPVAHPVSSLSQMSAE 660
Db 601 LQRLTTVISPVDVVIASVNCVLTVLAARNPAKWTDLRHTGFLPVAHPVSSLSQMSAE 660
Qy 661 GNNAGGYGNLLMNSQPGEGYVTFIARLITTLVKGOLGTSQSGLYPCVMFVLKMLP 720
Db 661 GNNAGGYGNLLMNSQPGEGYVTFIARLITTLVKGOLGTSQSGLYPCVMFVLKMLP 720
Qy 721 SYHKWRVNSHGVEQIGCLILELHAILNLCHETDLHSSHTPSLQFLCISLAYTEAGQT 780
Db 721 SYHKWRVNSHGVEQIGCLILELHAILNLCHETDLHSSHTPSLQFLCISLAYTEAGQT 780
Qy 781 VINIMIGVDTIDMVAAPRSDGAGGQGLIKTKVLAFAFSTNNVIRLKPPSNVYSP 840
Db 781 VINIMIGVDTIDMVAAPRSDGAGGQGLIKTKVLAFAFSTNNVIRLKPPSNVYSP 840
Qy 841 LEQALSQHGAGNNLIJAVLAKYIYHKHPALPRLAIQLLKRATVAPMSVYACLGNDAAA 900
Db 841 LEQALSQHGAGNNLIJAVLAKYIYHKHPALPRLAIQLLKRATVAPMSVYACLGNDAAA 900
Qy 901 IRDAPLTRLOSKIEMRIKVMLEFLTVAVETOPGLIEFLNLEVKDGSKGKPSLGMW 960
Db 901 IRDAPLTRLOSKIEMRIKVMLEFLTVAVETOPGLIEFLNLEVKDGSKGKPSLGMW 960
Qy 961 SCLHAVLELIDSQQDRYWCPELLHRAAIAFLHALWQDRRDSAMLVLRKPFWENLTSP 1020
Db 961 SCLHAVLELIDSQQDRYWCPELLHRAAIAFLHALWQDRRDSAMLVLRKPFWENLTSP 1020
Qy 1021 LFGTILSPSPSETSEPIETCALIMKICILEIYVVVKGSLDQSLKDTLKKFSIEKRPAYWS 1080
Db 1021 LFGTILSPSPSETSEPIETCALIMKICILEIYVVVKGSLDQSLKDTLKKFSIEKRPAYWS 1080

Qy 1081 GYVKS LAVHVAETBGSCTSLLEYQMLVSAWRMLLIITATTHADIMHLTDSVVRQLFLDV 1140
Db 1081 GYVKS LAVHVAETBGSCTSLLEYQMLVSAWRMLLIITATTHADIMHLTDSVVRQLFLDV 1140
Qy 1141 LDGTKALLVPASVNCILRLGSMKCTLLILRLQWKRELGSVDEILGPTEILEGVLOAQD 1200
Db 1141 LDGTKALLVPASVNCILRLGSMKCTLLILRLQWKRELGSVDEILGPTEILEGVLOAQD 1200
Qy 1201 QLMKTKAKVFSAPITVLQMKEMKVS DIPQYSQVLVNCVETLQBEVIALFPQTRHSLALG 1260
Db 1201 QLMKTKAKVFSAPITVLQMKEMKVS DIPQYSQVLVNCVETLQBEVIALFPQTRHSLALG 1260
Qy 1261 SATDKDSMETDDCSRRHRDQRCVGLGHLAKELCEVDEGDSMLQVTRRLPILPTL 1320
Db 1261 SATDKDSMETDDCSRRHRDQRCVGLGHLAKELCEVDEGDSMLQVTRRLPILPTL 1320
Qy 1321 LTTLEVSILRWKONLHTEATLHLLTLARTOOGATAVAGAGITQSICLPLLSVTVQLSTNG 1380
Db 1321 LTTLEVSILRWKONLHTEATLHLLTLARTOOGATAVAGAGITQSICLPLLSVTVQLSTNG 1380
Qy 1381 TAQTPSASRKS LDPSPGWVYRLSMLMEQLLKTLYNLFPEALDFVGVHQERTLQCLNA 1440
Db 1381 TAQTPSASRKS LDPSPGWVYRLSMLMEQLLKTLYNLFPEALDFVGVHQERTLQCLNA 1440
Qy 1441 VRTVQSILACLEAEADHTVGFILQSNFMKEMHFIHPOLMRDIOVNLGYLCOACTSLLHSRK 1500
Db 1441 VRTVQSILACLEAEADHTVGFILQSNFMKEMHFIHPOLMRDIOVNLGYLCOACTSLLHSRK 1500
Qy 1501 MLQHYLQNKNGDGLPSAQAQRVQPPSAASAPSSSKQPAADTEASEQOALHTVQYGLLK 1560
Db 1501 MLQHYLQNKNGDGLPSAQAQRVQPPSAASAPSSSKQPAADTEASEQOALHTVQYGLLK 1560
Qy 1561 ILSKTLAALRHFTPDVQCIILLDQSLDLAEYNFLFALSFTTPTFDSEVAPSGTLLATVNV 1620
Db 1561 ILSKTLAALRHFTPDVQCIILLDQSLDLAEYNFLFALSFTTPTFDSEVAPSGTLLATVNV 1620
Qy 1621 ALNMLGELD KKKELPTQAVGLSTQAEGRTRTKLSLLMFTMENC FYLLISQAMRYLRDPAVH 1680
Db 1621 ALNMLGELD KKKELPTQAVGLSTQAEGRTRTKLSLLMFTMENC FYLLISQAMRYLRDPAVH 1680
Qy 1681 PRDKQRMKQELSSSELSTLSSLSRYFRRGAPSSPATGVLPSPOGKSTSLSKASPESQBP 1740
Db 1681 PRDKQRMKQELSSSELSTLSSLSRYFRRGAPSSPATGVLPSPOGKSTSLSKASPESQBP 1740
Qy 1741 IQLVQAFVRHMQR 1753
Db 1741 IQLVQAFVRHMQR 1753
RESULT 11
US-10-719-385-16
; Sequence 16, Application US/10719385
; Publication No. US2004020284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10/719,385
; PRIORITY FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in ver. 2.1
; SEQ ID NO 16
; LENGTH: 1753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-719-385-16
Query Match 99.9%; Score 9001; DB 16; Length 1753;
Best Local Similarity 99.9%; Pred. No. 0;

Matches 1751; Conservative 2; Mismatches 0; Indels 0; Gaps 0;			
QY	1	MIRKSKITSVLSRCRSRELWTILLGRSALRELSQIEAELNKHWRLLLEGLSYKPPSPS	60
Db	1		
QY	61	SAEKVANKDVASPLKELGIRISKFLGDBEQSVQLQCQLQBYDYGRTGRDVSVKTVLQDER	120
Db	61		
QY	121	QSQALLKADYYEERTCILRCVLHLLTYFQDERHPYRVEYADCVDKLEKELVSKYRQ	180
Db	121		
QY	181	FEELYKTEAPTETHGNLMTERTOVSWFVQCLREQSMLEIIFLYYAYFEMAPSDLLVLT	240
Db	181		
QY	241	KMFKEQGFGRQTNRLHVDETMDPFVDRIGYFSALILVEGMDIESLHKCALDDRRELHQF	300
Db	241		
QY	301	AQDGLICQDMDCMLTFGDIPIHPAPVLLAWALLRHILNPEETS SVVRKICGTAIQLNVPQ	360
Db	301		
QY	361	YLTRLQSLASGNGDCTTACMCVYGLLSFVLTSLELHTLGNQDIDTACEVLADPSL	420
Db	361		
QY	421	PELFWGTPTSGIGIILDSVCGMFPHLLSPQLQLRALVSGKSTAKKVSYFSLDKMSFYNE	480
Db	421		
QY	481	LYKHKPHDVISHEDGTLWRQTPKLYPLGGQNLRIPOGTGVQVMDDRAYLVURWEYSY	540
Db	481		
QY	541	SSWTLFCELEMLHVVSTADVIQHOCORVKPIIDLHVHKVISTDLSIADCLLPITSRIYML	600
Db	541		
QY	601	LQRLTIVISPPVDVIASCNCLTVLAARNPAKVTDLRHTGFLFPFAHVPVSSLSQMSAE	660
Db	601		
QY	661	GMNAGGYGNLLMNSQPGQYGVTIAPLRITLTVKQLGSTQSGLVPCVMFVLKEMLP	720
Db	661		
QY	721	SYHKWRYNSHGVEQIGCLTLELIHAILNLCHETDLHSSHTPSLOFICISLAYTEAGOT	780
Db	721		
QY	781	VINIMGIVDTIDWMAAQPRSDGAEQOGQQLIKTVKLAFSVTNNVIRLKPSPNVSP	840
Db	781		
QY	841	LEQALSQHGAGHNNLAVLAKYIYHKHDPALPRAIQLLKRLATVAPMSVYACLGNDAA	900
Db	841		
QY	901	IRDAFLTRLOSKIEDMRIKWMIIEFLTVAVETOPGLIEFLNLEVKDGSQGSKEFSLGWW	960
Db	901		
QY	961	SCHHAVLELDSQODRYWCPPLLHRAAIAFLHALWODRDSAMLVLRTKPKFWENLTSP	1020
Db	961		
QY	1021	LFGLTSPSPSTSPSILETCALIMKIIICLBIYYVVGSLDQSLKDTLKKFPISEKRFAYWS	1080
Db	1021		

QY	1081	GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWRMLLIATTHADIMHLTDSVVRRLFLDV	1140
Db	1081		
QY	1141	LDGTTKALLVPASVNCRLRGLSMKCTLLILLQWRELGSVDEILGPTTEILEGVLOAQ	1200
Db	1141		
QY	1201	QLMEXTKAKVFSAFIVLQMKEMKVSIDIPOYSQVLNVNCETLQEEVIALFDOTRHSLALG	1260
Db	1201		
QY	1261	SATEDKDSMETDDCSRSRHRDQDQVCVYLGHLAKELCEVDEDDGDSWLQVTRRLPILPTL	1320
Db	1261		
QY	1321	LTTLEVSLRMKNQLHFTTEATLHLLTLARTQOGATAVAGAGITQSIICILPSSVYQLSTNG	1380
Db	1321		
QY	1381	TAQTPSASRKSIDAPSPGCVYRISMSLMEQLAKTLRYNFLPEALDFVGVHQBRTLQCLNA	1440
Db	1381		
QY	1441	VRTVOSLACLBEADHTVGFIQLQSNFMKEWHFHLPOLMRDIOVNLGYLCQACTSLLSHRK	1500
Db	1441		
QY	1501	MLQHYLQNKNGDGLPSAVAQVORVPPSAASAAPSSSKQPAADTEASEQALHTVQYGLLK	1560
Db	1501		
QY	1561	ILSKTLAARHFTPDVCOILLDQSLDLAEYNFLFALSFTPTFDSEVAPSGFTLLATVNV	1620
Db	1561		
QY	1621	ALNMLGELDKKKEPTLQAVGLSTQABGRTLKSLMFTMENCIFYLLISQAMRYLRDPVAH	1680
Db	1621		
QY	1681	PRDKQMKQELSESLSTLLSSLSRFRGAPSPATGVLPSPQKSTSLSKASPESQEPL	1740
Db	1681		
QY	1741	IQLVQAFVRHMOR	1753
Db	1741		

RESULT 12

US-10-719-385-7
; Sequence 7, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10/719,385
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 1753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-719-385-7

Query Match 99.9%; Score 8999; DB 16; Length 1753;

Best Local Similarity 99.9%; Pred. No. 0;			
Matches 1752; Conservative 0; Mismatches 1; Indels 0; Gaps 0;			
Qy	1	MIRSKITSVLSCFRSSRELATILGRSALRELQIEAELNKHRRLLLEGISYKPPSPS	60
Db	1	MIRSKITSVLSCFRSSRELATILGRSALRELQIEAELNKHRRLLLEGISYKPPSPS	60
Qy	61	SAEKVANKOVASPLKELGLRISKFLGIDERSQVQLQCYLOEDYRGTRDSVKTVLQDER	120
Db	61	SAEKVANKOVASPLKELGLRISKFLGIDERSQVQLQCYLOEDYRGTRDSVKTVLQDER	120
Qy	121	QSOALILKIADYYEERTCIIRCULVLLTYQDERHPYRVEYADCVDKLEKELYSKTRQQ	180
Db	121	QSOALILKIADYYEERTCIIRCULVLLTYQDERHPYRVEYADCVDKLEKELYSKTRQQ	180
Qy	181	FEELYKTEAPTEWETHGNLWTERQVSRWFQCLREOSMLLEIIFLYAYAFEMAPSDLLVLT	240
Db	181	FEELYKTEAPTEWETHGNLWTERQVSRWFQCLREOSMLLEIIFLYAYAFEMAPSDLLVLT	240
Qy	241	KMFKEQGFSGRQTNRHLYDETMDFVDRIGYFSALILVEGMDIESLHKCALDDRRELHQF	300
Db	241	KMFKEQGFSGRQTNRHLYDETMDFVDRIGYFSALILVEGMDIESLHKCALDDRRELHQF	300
Qy	301	AQDGLICODMCLMTFGDIIPHAPVLLAWALLRHTLNPEETSSVVRKIGGTAQLNVFQ	360
Db	301	AQDGLICODMCLMTFGDIIPHAPVLLAWALLRHTLNPEETSSVVRKIGGTAQLNVFQ	360
Qy	361	YLTRLQSLASGNDCTTSTACMCVYGLLSFVLTSLELHTLGNODIIDTACEVLADPSL	420
Db	361	YLTRLQSLASGNDCTTSTACMCVYGLLSFVLTSLELHTLGNODIIDTACEVLADPSL	420
Qy	421	PELFWGTEPTSGLGIILDSVCMFPHLLSPLOQLRALVSGKSTAKKYVSFLDKMSFYNE	480
Db	421	PELFWGTEPTSGLGIILDSVCMFPHLLSPLOQLRALVSGKSTAKKYVSFLDKMSFYNE	480
Qy	481	LYKXKPHDVI SHEDGTLWRRQTPKLLYPLGGQTNLRIPQGTGVQWMLDDRAYLVRWEYSY	540
Db	481	LYKXKPHDVI SHEDGTLWRRQTPKLLYPLGGQTNLRIPQGTGVQWMLDDRAYLVRWEYSY	540
Qy	541	SSWTLFTCEIEMLLHVVSTADVIQHCQVQKPIIDLVHKVISTDLSIADCLLPITSRIYML	600
Db	541	SSWTLFTCEIEMLLHVVSTADVIQHCQVQKPIIDLVHKVISTDLSIADCLLPITSRIYML	600
Qy	601	LQRLTTVISPVDVIASCVNCLTVLAARNPAKWTDLRHTGFLPFAHVPVSSLSQMSAE	660
Db	601	LQRLTTVISPVDVIASCVNCLTVLAARNPAKWTDLRHTGFLPFAHVPVSSLSQMSAE	660
Qy	661	GNNAGGYGNLLMNSPOQEGYVTTIAFLRLITTLVKGLGTSQSGQLVPCVMFVLKEMLP	720
Db	661	GNNAGGYGNLLMNSPOQEGYVTTIAFLRLITTLVKGLGTSQSGQLVPCVMFVLKEMLP	720
Qy	721	SYHKWRYNSHGVRQIGCLILELHAILNLCHETDLHSSHTPSLOFLCISLAYTEAGOT	780
Db	721	SYHKWRYNSHGVRQIGCLILELHAILNLCHETDLHSSHTPSLOFLCISLAYTEAGOT	780
Qy	781	VINIMGIVDITDMWMAQPRSDGAGQGGQGLLTKVKLAFSVTNVIRLKPSPNVVSP	840
Db	781	VINIMGIVDITDMWMAQPRSDGAGQGGQGLLTKVKLAFSVTNVIRLKPSPNVVSP	840
Qy	841	LEQALSQHGAGNNLIJVLAKYIYHKHDPALPRLAIQLLKRATVAPMSVYACLNDAAA	900
Db	841	LEQALSQHGAGNNLIJVLAKYIYHKHDPALPRLAIQLLKRATVAPMSVYACLNDAAA	900
Qy	901	IRDAFLTRLOSKIEDMRKVMLEFLTVAVETOPGLIELFLNLEVKDSDGSKESLGNW	960
Db	901	IRDAFLTRLOSKIEDMRKVMLEFLTVAVETOPGLIELFLNLEVKDSDGSKESLGNW	960
Qy	961	SCHLAVLELIDSQODRYCWPPLHRAATAFLHALWQDRRDSAMLVLRTPKPFWNLTS	1020
Db	961	SCHLAVLELIDSQODRYCWPPLHRAATAFLHALWQDRRDSAMLVLRTPKPFWNLTS	1020
Qy	1021	LFGTLSPPSETSEPSIETCALIMKIICLEIYVVVKGSLDQSLKDTLKKFSEIKRFAYWS	1080

Db	1021	LFGTLSPPSETSEPSIETCALIMKIICLEIYVVVKGSLDQSLKDTLKKFSEIKRFAYWS	1080
Qy	1081	GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWRMLLIATTHADIMHLLTDSVVRQLFLDV	1140
Db	1081	GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWRMLLIATTHADIMHLLTDSVVRQLFLDV	1140
Qy	1141	LDGTKALLVPASVNCIRLGLSMKCTLLILLRQWKRELGSVDEILGPLETEILEGVLOADQ	1200
Db	1141	LDGTKALLVPASVNCIRLGLSMKCTLLILLRQWKRELGSVDEILGPLETEILEGVLOADQ	1200
Qy	1201	OLMEKTKAKVPSAFITVLQMKEMKSDIPQYSQVLVNCETLQBEVIALFQOTRHSLAG	1260
Db	1201	OLMEKTKAKVPSAFITVLQMKEMKSDIPQYSQVLVNCETLQBEVIALFQOTRHSLAG	1260
Qy	1261	SATEDKDSMETDDCSRSRHRDQDQVGLGHLAKELCEVDEDEGDSMLQVTRRLPILPTL	1320
Db	1261	SATEDKDSMETDDCSRSRHRDQDQVGLGHLAKELCEVDEDEGDSMLQVTRRLPILPTL	1320
Qy	1321	LTTLVSLRMKQNLHFTTEATLHLLTLARTOOGATAVAGAGITQSIICLPLSVVQLSTNG	1380
Db	1321	LTTLVSLRMKQNLHFTTEATLHLLTLARTOOGATAVAGAGITQSIICLPLSVVQLSTNG	1380
Qy	1381	TAQTPSASRKSLLDAPSPGVTYRLSNLSMEQLLKTLYRNFLPEALDFVGVOERTLQCLNA	1440
Db	1381	TAQTPSASRKSLLDAPSPGVTYRLSNLSMEQLLKTLYRNFLPEALDFVGVOERTLQCLNA	1440
Qy	1441	VRTVQSLACLAEADHTVGFILQLSNFMKEMHFLHPQLMRDIQVNLGYLCQACTSLLSHRK	1500
Db	1441	VRTVQSLACLAEADHTVGFILQLSNFMKEMHFLHPQLMRDIQVNLGYLCQACTSLLSHRK	1500
Qy	1501	MLQHYLQKNGDGLPSAVAQVRQPPPSAASAPSSSKQPAADTEASEQOALHTVQYGLLK	1560
Db	1501	MLQHYLQKNGDGLPSAVAQVRQPPPSAASAPSSSKQPAADTEASEQOALHTVQYGLLK	1560
Qy	1561	ILSKTLAALRHTPDVCOILLDQSLDLAEYNFLPALSETTPTFDSSEVAPSFCTLLATVNV	1620
Db	1561	ILSKTLAALRHTPDVCOILLDQSLDLAEYNFLPALSETTPTFDSSEVAPSFCTLLATVNV	1620
Qy	1621	ALNMLGELDKKKEPLTQAVGLSTQAEGRTRTLKSLMFTMENCIFYLLISQAMRYLRDPVH	1680
Db	1621	ALNMLGELDKKKEPLTQAVGLSTQAEGRTRTLKSLMFTMENCIFYLLISQAMRYLRDPVH	1680
Qy	1681	PRDKQMKQELSSSELSTLLSSLSRYFRRGAPSSPATGVLPSPQGSTSLSKASPSQBP	1740
Db	1681	PRDKQMKQELSSSELSTLLSSLSRYFRRGAPSSPATGVLPSPQGSTSLSKASPSQBP	1740
Qy	1741	IOLVQAFVRHMQR 1753	
Db	1741	IOLVQAFVRHMQR 1753	

RESULT 13

US-10-719-385-12
; Sequence 12, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10/719,385
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 12
; LENGTH: 1753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-719-385-12

Query Match		99.9%; Score 8999; DB 16; Length 1753;	
Best Local Similarity		99.9%; Pred. No. 0;	
Matches 1752; Conservative		0; Mismatches 1; Indels 0; Gaps 0;	
QY	1	MIRKSKITSVLSFCRSRRELWILLGRSALRELSQIEAELNKHWRRLLEGLSYKPPSPS	60
DB	1	MIRKSKITSVLSFCRSRRELWILLGRSALRELSQIEAELNKHWRRLLEGLSYKPPSPS	60
QY	61	SAEKVANKDVASPLKELGURISKFLGDBEQSVLLQCYLQEDYRGTRDSVKTIVLQDER	120
DB	61	SAEKVANKDVASPLKELGURISKFLGDBEQSVLLQCYLQEDYRGTRDSVKTIVLQDER	120
QY	121	OSQALILKADYYBERTCILRCVHLITVQDERHPYRVEYADCVDKLEKELSVKVRQ	180
DB	121	OSQALILKADYYBERTCILRCVHLITVQDERHPYRVEYADCVDKLEKELSVKVRQ	180
QY	181	FEELYKTEAPTWEHGNLMTQVRSWRFVQCLREQSMLEIIFLYYAYFEMAFSDLLVLT	240
DB	181	FEELYKTEAPTWEHGNLMTQVRSWRFVQCLREQSMLEIIFLYYAYFEMAFSDLLVLT	240
QY	241	KMFKEQGFGRQNRHLVDETMDPFVDRIQYFSALILVEGMDIESLHKCALDDRRRLHQF	300
DB	241	KMFKEQGFGRQNRHLVDETMDPFVDRIQYFSALILVEGMDIESLHKCALDDRRRLHQF	300
QY	301	AQDGLICODMDCMLTFGDI PHAPVLLAWALLRHTLINPEETS SVVRKIGGTAIQLNVFQ	360
DB	301	AQDGLICODMDCMLTFGDI PHAPVLLAWALLRHTLINPEETS SVVRKIGGTAIQLNVFQ	360
QY	361	YLTRLQSLASGGNDCDTSSTACMCVYGLLSFVLTSLEHLTGNQDIIIDTACEVLADPSL	420
DB	361	YLTRLQSLASGGNDCDTSSTACMCVYGLLSFVLTSLEHLTGNQDIIIDTACEVLADPSL	420
QY	421	PELFWGTGTEPTSGLGIILDSVCGMFPHLLSPQLQALLALVSGKSTAKKVSFLDKMSFYNE	480
DB	421	PELFWGTGTEPTSGLGIILDSVCGMFPHLLSPQLQALLALVSGKSTAKKVSFLDKMSFYNE	480
QY	481	LYKHKPHDVISHEDGTLWRRTQPKLYPLIGQGNLRIPOQTVGQVMDLDRAYLVREYSY	540
DB	481	LYKHKPHDVISHEDGTLWRRTQPKLYPLIGQGNLRIPOQTVGQVMDLDRAYLVREYSY	540
QY	541	SSWTLFTCEIEMLLHVSTADVIHQCORVKPIIDLHVHKVISTDLSIADCLLPITSRIYML	600
DB	541	SSWTLFTCEIEMLLHVSTADVIHQCORVKPIIDLHVHKVISTDLSIADCLLPITSRIYML	600
QY	601	LQRLTTVISPPVDVIASVNCVLTVLAARNPAKWTDLRHTGFLPFVAHVPVSSLSQMSIAE	660
DB	601	LQRLTTVISPPVDVIASVNCVLTVLAARNPAKWTDLRHTGFLPFVAHVPVSSLSQMSIAE	660
QY	661	GMNAGGYGNLLMNSQPGQGVGTIAFLRLITLVKGQIGSTQSGILVPCVMFVKEMLP	720
DB	661	GMNAGGYGNLLMNSQPGQGVGTIAFLRLITLVKGQIGSTQSGILVPCVMFVKEMLP	720
QY	721	SYHKWRVNSHGVRQICGLILELIHAILNLCHETDLHSSHTPSLQFLCISLAYTEAGQT	780
DB	721	SYHKWRVNSHGVRQICGLILELIHAILNLCHETDLHSSHTPSLQFLCISLAYTEAGQT	780
QY	781	VINIMIGVDTIDMVAAPRSDGAEQGGQGLIKITVKLAFSVTNVIRLKPSPNVVSP	840
DB	781	VINIMIGVDTIDMVAAPRSDGAEQGGQGLIKITVKLAFSVTNVIRLKPSPNVVSP	840
QY	841	LEQALSOGHAGNNLIJAVLAKYIYHKHDPALPRALQALLKRLATVAPMSVYACLGNDAAA	900
DB	841	LEQALSOGHAGNNLIJAVLAKYIYHKHDPALPRALQALLKRLATVAPMSVYACLGNDAAA	900
QY	901	IRDAFLTRLQSKIEDMRIKVMILEFLLVAVETQGLIETFLNLEVKGDSGSKEFSIGMW	960
DB	901	IRDAFLTRLQSKIEDMRIKVMILEFLLVAVETQGLIETFLNLEVKGDSGSKEFSIGMW	960
QY	961	SCLHAVLELIDSQOQDRYWCPLLHRAAIAFLHALWQDRDSDAMLVLRTPKFWENITSP	1020
DB	961	SCLHAVLELIDSQOQDRYWCPLLHRAAIAFLHALWQDRDSDAMLVLRTPKFWENITSP	1020
QY	1021	LFGTLPSPSETSEPSILETCALIMKIICLEIYVVVKGSLDQSLKDTLTKFSEIKRFPAYWS	1080
DB	1021	LFGTLPSPSETSEPSILETCALIMKIICLEIYVVVKGSLDQSLKDTLTKFSEIKRFPAYWS	1080
QY	1081	GYVKSILAVVAETEGSSCTSLLEYQMLVSAWMLLIIATTHADIMHLTDSVVRQLFLDV	1140
DB	1081	GYVKSILAVVAETEGSSCTSLLEYQMLVSAWMLLIIATTHADIMHLTDSVVRQLFLDV	1140
QY	1141	LDGTKALLIAPVAVNCLRGSMKCTLLILLQWKRELGSVDEILGLPLTEILEGVLOAQDQ	1200
DB	1141	LDGTKALLIAPVAVNCLRGSMKCTLLILLQWKRELGSVDEILGLPLTEILEGVLOAQDQ	1200
QY	1201	QLMKTKAKVSAFATVQLQMKMKVSDIPQYSQVLNVNCETIQEEVIALFDQTRHSLALG	1260
DB	1201	QLMKTKAKVSAFATVQLQMKMKVSDIPQYSQVLNVNCETIQEEVIALFDQTRHSLALG	1260
QY	1261	SATEDKDSMETDDCSRSRHRDQDGVVLGLHLAKELCEVDEGDSWLOVTRRLPLPTL	1320
DB	1261	SATEDKDSMETDDCSRSRHRDQDGVVLGLHLAKELCEVDEGDSWLOVTRRLPLPTL	1320
QY	1321	LTTLEVSLRMKNLHFTFATLHLILLTARTQOGATAVAGAGITQSIICPLLSVYQLSTNG	1380
DB	1321	LTTLEVSLRMKNLHFTFATLHLILLTARTQOGATAVAGAGITQSIICPLLSVYQLSTNG	1380
QY	1381	TAQTPSASRSKSLDAPSPGVYRLSMLMEQLLKTLYNLFPEALDFVGVHQRTELQCLNA	1440
DB	1381	TAQTPSASRSKSLDAPSPGVYRLSMLMEQLLKTLYNLFPEALDFVGVHQRTELQCLNA	1440
QY	1441	VRTVQSLACLBEADHTVGFILQLSNFMKWHFHLPOLMRDIOVNLGYLCOACTSLHSHRK	1500
DB	1441	VRTVQSLACLBEADHTVGFILQLSNFMKWHFHLPOLMRDIOVNLGYLCOACTSLHSHRK	1500
QY	1501	MLQHYLQNKNGDGLPSAQAQRVORPPSAASAAPSSSKQPAADTASEAQALHTVQYGLLK	1560
DB	1501	MLQHYLQNKNGDGLPSAQAQRVORPPSAASAAPSSSKQPAADTASEAQALHTVQYGLLK	1560
QY	1561	ILSKTLAALRHFTPDVCQILLDQSLDLAEYNFLFALSFTTPTFDSEVAPSPFGTLATVNV	1620
DB	1561	ILSKTLAALRHFTPDVCQILLDQSLDLAEYNFLFALSFTTPTFDSEVAPSPFGTLATVNV	1620
QY	1621	ALNMLGELDKKEPLTOAVGLSTQAEGRITLKSLLMTWENCIFYLLISOAMRYLRDPAVH	1680
DB	1621	ALNMLGELDKKEPLTOAVGLSTQAEGRITLKSLLMTWENCIFYLLISOAMRYLRDPAVH	1680
QY	1681	PRDKORMKELSELSTLLSSLSRYFRRGAPSPATGVLPSPOGKSTSLSKASPSQEPL	1740
DB	1681	PRDKORMKELSELSTLLSSLSRYFRRGAPSPATGVLPSPOGKSTSLSKASPSQEPL	1740
QY	1741	IQLVQAFVRHMQR 1753	
DB	1741	IQLVQAFVRHMQR 1753	

RESULT 14

US-10-719-385-18
; Sequence 18, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10/719,385
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 1753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-719-385-18

Query Match 99.9%; Score 8998; DB 16; Length 1753; Best Local Similarity 99.9%; Pred. No. 0; Matches 1751; Conservative 1; Mismatches 1; Indels 0; Gaps 0;			
Qy	1	MIRSKITSVLSFCRSEBELATILLGRSALRELSQLAEALNKHWRRLLEGSLYKPPSPS	60
Db	1	MIRSKITSVLSFCRSEBELATILLGRSALRELSQLAEALNKHWRRLLEGSLYKPPSPS	60
Qy	61	SAEKVANKOVASPLKELGRISKFLGLDEQSVQLQCYLOEDYRGTRDSVKTVLODER	120
Db	61	SAEKVANKOVASPLKELGRISKFLGLDEQSVQLQCYLOEDYRGTRDSVKTVLODER	120
Qy	121	QSOALILKIADYYEERTCIIIRCVLHLLTYFQDERHPYRVYADCVDKLEKELSKYRQ	180
Db	121	QSOALILKIADYYEERTCIIIRCVLHLLTYFQDERHPYRVYADCVDKLEKELSKYRQ	180
Qy	181	FEELYKTEAPTWETHGNLMTROVSRWFVQCIRQESMLLEIIFLYAYFEMAPSDLLVLT	240
Db	181	FEELYKTEAPTWETHGNLMTROVSRWFVQCIRQESMLLEIIFLYAYFEMAPSDLLVLT	240
Qy	241	KMFKEQSGSQTNRHLVDETMDFVDRIGYFSALILVEGMDIESLHKALDDRRRELHOF	300
Db	241	KMFKEQSGSQTNRHLVDETMDFVDRIGYFSALILVEGMDIESLHKALDDRRRELHOF	300
Qy	301	AQDGLICQDMCLMTFGDIIPHAPVLLAWALLRHTLNPEETSSVVRKIGGTAIQLNVFQ	360
Db	301	AQDGLICQDMCLMTFGDIIPHAPVLLAWALLRHTLNPEETSSVVRKIGGTAIQLNVFQ	360
Qy	361	YLTRLQSLASGNDCTTSTACMCYVGLLSFVLTSLELHTIGNOODIIDTACEVLADPSL	420
Db	361	YLTRLQSLASGNDCTTSTACMCYVGLLSFVLTSLELHTIGNOODIIDTACEVLADPSL	420
Qy	421	PELFWGTPTSGLGIILDSVCGMPHLLSPLLQRLRALVSGKSTAKVYFSLDKMSFYNE	480
Db	421	PELFWGTPTSGLGIILDSVCGMPHLLSPLLQRLRALVSGKSTAKVYFSLDKMSFYNE	480
Qy	481	LYKXKPHDVI SHEDGTLWRRQTPKLLYPLGGQTNLRIPQGTVGQVMLDDRAYLVRWEYSY	540
Db	481	LYKXKPHDVI SHEDGTLWRRQTPKLLYPLGGQTNLRIPQGTVGQVMLDDRAYLVRWEYSY	540
Qy	541	SSWTLFTCEIEMLLHWSTADVIQHCORVKPIIDLHVHVISTDLSIADCLLPITSRIYML	600
Db	541	SSWTLFTCEIEMLLHWSTADVIQHCORVKPIIDLHVHVISTDLSIADCLLPITSRIYML	600
Qy	601	LQRLTTVLSPPVDVTASCVNCLTVLAARNPAKWTDLRHTGFLPFAVHPVSSLSQMSAE	660
Db	601	LQRLTTVLSPPVDVTASCVNCLTVLAARNPAKWTDLRHTGFLPFAVHPVSSLSQMSAE	660
Qy	661	GNNAGGYGNLLMNSRQPOGEYGVTTIAFLRLITTLVKQLGSTQSGQLVPCVMFVLKEMLP	720
Db	661	GNNAGGYGNLLMNSRQPOGEYGVTTIAFLRLITTLVKQLGSTQSGQLVPCVMFVLKEMLP	720
Qy	721	SYHKWRYNHGVREGIGCLILELHAIINLCHETDLHSHTPSPLOFLCISLAYTEAGQT	780
Db	721	SYHKWRYNHGVREGIGCLILELHAIINLCHETDLHSHTPSPLOFLCISLAYTEAGQT	780
Qy	781	VININGIGVDTIDMVMAPRSDGAGOGQGLIKTVKLAFSVTNVIRLKPSPNVVSP	840
Db	781	VININGIGVDTIDMVMAPRSDGAGOGQGLIKTVKLAFSVTNVIRLKPSPNVVSP	840
Qy	841	LEQALSQHGAGHNNLIVLAKYIYHKHPALPRLAIQLLKRATVAPMSVACLGNDA	900
Db	841	LEQALSQHGAGHNNLIVLAKYIYHKHPALPRLAIQLLKRATVAPMSVACLGNDA	900
Qy	901	IRDAFLTRLOSKIEMRIKVMILEFTVAVETQGLIELFLNLEVKDSDGSKFSLGNW	960
Db	901	IRDAFLTRLOSKIEMRIKVMILEFTVAVETQGLIELFLNLEVKDSDGSKFSLGNW	960
Qy	961	SCLHAVLELIDSOQDRWCPLHLHRAAIAFLHALWDRRDSAMLVLRTPKFWENLTSP	1020
Db	961	SCLHAVLELIDSOQDRWCPLHLHRAAIAFLHALWDRRDSAMLVLRTPKFWENLTSP	1020

Qy	1021	LFGTLSPPSETSEPSIILETCALINKIICLEIYYVYVKGSLDOSLKDITLKKFSEIKRFAYWS	1080
Db	1021	LFGTLSPPSETSEPSIILETCALINKIICLEIYYVYVKGSLDOSLKDITLKKFSEIKRFAYWS	1080
Qy	1081	GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWRMLLIATTHADIMHMLTDSVVRQLFLDV	1140
Db	1081	GYVKSIAVHVAETEGSSCTSLLEYQMLVSAWRMLLIATTHADIMHMLTDSVVRQLFLDV	1140
Qy	1141	LDGTKALLVPASVNCRLRGLSMKCTLLILLRQWKRELGSVDEILGPJTEILEGVLOADQ	1200
Db	1141	LDGTKALLVPASVNCRLRGLSMKCTLLILLRQWKRELGSVDEILGPJTEILEGVLOADQ	1200
Qy	1201	QLMKTKAKVFSAFITVLQMKEMKVDIPOYSQVLVNCETLQBEVIALPQOTRHSIALG	1260
Db	1201	QLMKTKAKVFSAFITVLQMKEMKVDIPOYSQVLVNCETLQBEVIALPQOTRHSIALG	1260
Qy	1261	SATEDKDSMETDDCSRRHRDQDQVGLGHLAKELCEVEDGDSMLQVTRRLPILPTL	1320
Db	1261	SATEDKDSMETDDCSRRHRDQDQVGLGHLAKELCEVEDGDSMLQVTRRLPILPTL	1320
Qy	1321	LTTLEVSILRMKQNLHFTTEATLHLLLTARTQOGATAVAGAGITQSIICLPILLSVQLSTNG	1380
Db	1321	LTTLEVSILRMKQNLHFTTEATLHLLLTARTQOGATAVAGAGITQSIICLPILLSVQLSTNG	1380
Qy	1381	TAQTPSASRKSILDAPSPGVYRLSMLSMEQLLKTILRYNFLPEALDFVGVHQBERTILOCLNA	1440
Db	1381	TAQTPSASRKSILDAPSPGVYRLSMLSMEQLLKTILRYNFLPEALDFVGVHQBERTILOCLNA	1440
Qy	1441	VRTVQSLACLAEADHTVGFILQLSNFMKWHFHLPOLMRDIQVNLGYLCOACTSLLSHRK	1500
Db	1441	VRTVQSLACLAEADHTVGFILQLSNFMKWHFHLPOLMRDIQVNLGYLCOACTSLLSHRK	1500
Qy	1501	MLQHYLQNKNGDGLPSAVAQVRQPPSAASAAPSSSKQPAADTBASEQOALHTVOYGLLK	1560
Db	1501	MLQHYLQNKNGDGLPSAVAQVRQPPSAASAAPSSSKQPAADTBASEQOALHTVOYGLLK	1560
Qy	1561	ILSKITLAALRHFTPDVQCIILLDQSLDLAEYNFLFALSFTTTFDSEVAPSGTLLATVNV	1620
Db	1561	ILSKITLAALRHFTPDVQCIILLDQSLDLAEYNFLFALSFTTTFDSEVAPSGTLLATVNV	1620
Qy	1621	ALNMGLDKKKEPLTOAVGLSTQAGTRTLKLSLLMFTMENCIFYLLISQAMRYLRDPAVH	1680
Db	1621	ALNMGLDKKKEPLTOAVGLSTQAGTRTLKLSLLMFTMENCIFYLLISQAMRYLRDPAVH	1680
Qy	1681	PRDKQRMKQELSSLSLTLSSLSRYFRKAPSPATGVLPSPPQKSTSLSKASPESQBPPL	1740
Db	1681	PRDKQRMKQELSSLSLTLSSLSRYFRKAPSPATGVLPSPPQKSTSLSKASPESQBPPL	1740
Qy	1741	IQLVQAFVRRHMQR 1753	
Db	1741	IQLVQAFVRRHMQR 1753	

RESULT 15
US-10-719-385-9
; Sequence 9, Application US/10719385
; Publication No. US20040209284A1
; GENERAL INFORMATION:
; APPLICANT: O'Toole et al.
; TITLE OF INVENTION: Composition and Method for Treating Lupus Nephritis
; FILE REFERENCE: 22058-582
; CURRENT APPLICATION NUMBER: US/10/719.385
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: PCT/US03/37339
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 60/428,094
; PRIOR FILING DATE: 2002-11-21
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 9
; LENGTH: 1753
; TYPE: PRT
; ORGANISM: Homo sapiens

US-10-719-385-9									
Query Match 99.9%; Score 8997; DB 16; Length 1753;									
Best Local Similarity 99.9%; Pred. No. 0;									
Matches 1752; Conservative 1; Mismatches 0; Indels 0; Gaps 0;									
Qy	1	MIRSKITSVLSFCRSRRELWTILLGRSALRELSQIEAEINKHWRLLLEGLSYKPPSPS	60						
Db	1	MIRSKITSVLSFCRSRRELWTILLGRSALRELSQIEAEINKHWRLLLEGLSYKPPSPS	60						
Qy	61	SAEKVANKDVASPLKELGRIISKFLGLDEEQSVQLLQCYLQEDYRGTRDSVKTVLQDER	120						
Db	61	SAEKVANKDVASPLKELGRIISKFLGLDEEQSVQLLQCYLQEDYRGTRDSVKTVLQDER	120						
Qy	121	QSQALILKIADYYEBERTCILRCVHLHTYFQDERHPYRVEYADCVDKLEKELVSKYRQ	180						
Db	121	QSQALILKIADYYEBERTCILRCVHLHTYFQDERHPYRVEYADCVDKLEKELVSKYRQ	180						
Qy	181	FEELYKTEAPTETHGNLMTEROVSRWFVOCLEQSMLEIIIFLYAYFEMAPSDLLVLT	240						
Db	181	FEELYKTEAPTETHGNLMTEROVSRWFVOCLEQSMLEIIIFLYAYFEMAPSDLLVLT	240						
Qy	241	KMFKEQFGSRQNRHLVDETMPFVDRIIGYFSALILVEGMDIESLHKCALDDRRELHQF	300						
Db	241	KMFKEQFGSRQNRHLVDETMPFVDRIIGYFSALILVEGMDIESLHKCALDDRRELHQF	300						
Qy	301	AQGLICQDMDCMLTFGDIPIHAPVLLAWALLRHTLNPEETS SVVRKIGGTAIQLNVFQ	360						
Db	301	AQGLICQDMDCMLTFGDIPIHAPVLLAWALLRHTLNPEETS SVVRKIGGTAIQLNVFQ	360						
Qy	361	YLRLQLQSLASGNGDCTTSACMCVGLLSFVLTSLEHLTLGNQODIIDFACBVLADPSL	420						
Db	361	YLRLQLQSLASGNGDCTTSACMCVGLLSFVLTSLEHLTLGNQODIIDFACBVLADPSL	420						
Qy	421	PELFWGTEPTSGLGIILDSVCGMFPPLLSLQLLRALVSGKSTAKKVYFSLDKMSFYNE	480						
Db	421	PELFWGTEPTSGLGIILDSVCGMFPPLLSLQLLRALVSGKSTAKKVYFSLDKMSFYNE	480						
Qy	481	LYKHKPHDVI SHEDGTLWRRTQPKLLYPLGQGNLRIPOGTVGQVMDLDRAYLVWRWEYSY	540						
Db	481	LYKHKPHDVI SHEDGTLWRRTQPKLLYPLGQGNLRIPOGTVGQVMDLDRAYLVWRWEYSY	540						
Qy	541	SSWTLFTCEIEMLLHVSTADVTOHCORVKPIIDLHVHKVISTDLSTADCLLPITTSRYML	600						
Db	541	SSWTLFTCEIEMLLHVSTADVTOHCORVKPIIDLHVHKVISTDLSTADCLLPITTSRYML	600						
Qy	601	LQRLTTVISPPVDVIA SCVNCLTVLAARNPAKVMTDLRHTGFLPFVAHPVSSLSQMSISAE	660						
Db	601	LQRLTTVISPPVDVIA SCVNCLTVLAARNPAKVMTDLRHTGFLPFVAHPVSSLSQMSISAE	660						
Qy	661	GMNAGGYGNLLMNSQOQGEYGVTIAPRLITLVKGQLGSTQSGLVPCVMFVKEMLP	720						
Db	661	GMNAGGYGNLLMNSQOQGEYGVTIAPRLITLVKGQLGSTQSGLVPCVMFVKEMLP	720						
Qy	721	SYHKWRVNSHGVRQICGLILELHAIINLCHETDLHSSHTPSLQFLCICLSLAYTEAGQT	780						
Db	721	SYHKWRVNSHGVRQICGLILELHAIINLCHETDLHSSHTPSLQFLCICLSLAYTEAGQT	780						
Qy	781	VINIMIGIVDTIDMWMAAQPRSDGAEQGGQQLLIKTIVKLAFSVTNNVIRLKPPSNVYSP	840						
Db	781	VINIMIGIVDTIDMWMAAQPRSDGAEQGGQQLLIKTIVKLAFSVTNNVIRLKPPSNVYSP	840						
Qy	841	LEQALSQHGAGGNLLIAVLAKYIYHKHDPALPRIAIQLLKRLLATVAPMSYACLGNDAAA	900						
Db	841	LEQALSQHGAGGNLLIAVLAKYIYHKHDPALPRIAIQLLKRLLATVAPMSYACLGNDAAA	900						
Qy	901	IRDAFLRLQSKIEDMEIKWILEBFLTVAVETQGLLEFLNLEVKDGSKEFSIGMW	960						
Db	901	IRDAFLRLQSKIEDMEIKWILEBFLTVAVETQGLLEFLNLEVKDGSKEFSIGMW	960						
Qy	961	SCLHAVLELIDSQQDRYWCPPPLHRAAIAFLHALWQDRRDSAMLVLRTKPKFWEMLTSP	1020						
Db	961	SCLHAVLELIDSQQDRYWCPPPLHRAAIAFLHALWQDRRDSAMLVLRTKPKFWEMLTSP	1020						

Search completed: October 21, 2005, 07:32:59

Job time : 141 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: October 20, 2005, 16:01:56 ; Search time 125 Seconds
(without alignments)
2829.467 Million cell updates/sec

Title: US-10-719-385-2

Perfect score: 9007

Sequence: 1 MIRKSKITSVLSPCRSREL.....PESQEPILQVQAFVRHMQR 1753

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 897115 seqs, 201758920 residues

Total number of hits satisfying chosen parameters: 897115

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Pending Patents AA New:*

- 1: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pdp.*
- 2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pdp.*
- 3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pdp.*
- 4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pdp.*
- 5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pdp.*
- 6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pdp.*
- 7: /cgn2_6/ptodata/2/paa/US11_NEW_COMB.pdp.*
- 8: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pdp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	9835	98.1	1889	6	US-10-450-763-40265
2	446	5.0	100	6	US-10-450-763-40264
3	292.5	3.2	2012	8	US-60-664-936-325
4	292.5	3.2	2012	8	US-60-701-038-305
5	292.5	3.2	2012	8	US-60-717-251-660
6	292.5	3.2	2012	8	US-60-717-196-497
7	292.5	3.2	2013	8	US-60-701-038-306
8	292.5	3.2	2013	8	US-60-717-251-661
9	292.5	3.2	2013	8	US-60-717-196-498
10	292.5	3.2	2014	8	US-60-664-936-323
11	292.5	3.2	2015	8	US-60-701-038-308
12	292.5	3.2	2015	8	US-60-717-251-663
13	292.5	3.2	2015	8	US-60-717-196-500
14	291.5	3.2	2012	8	US-60-664-936-324
15	291.5	3.2	2012	8	US-60-701-038-307
16	291.5	3.2	2012	8	US-60-717-251-662
17	291.5	3.2	2012	8	US-60-717-196-499
18	197.5	2.2	2060	7	US-11-097-143-39315
19	189	2.1	1248	7	US-11-097-143-11187
20	163.5	1.8	2432	7	US-11-085-606-668
21	163.5	1.8	2432	7	US-11-085-606-670
22	163.5	1.8	2432	7	US-11-085-606-672
23	163.5	1.8	2433	7	US-11-222-045-1553
24	163.5	1.8	2433	7	US-11-222-045-1554
25	163.5	1.8	2433	7	US-11-222-045-1555

ALIGNMENTS

RESULT 1

US-10-450-763-40265

; Sequence 40265, Application US/10450763

; GENERAL INFORMATION:

; APPLICANT: Hyseq, Inc

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES

; FILE REFERENCE: 790CIP3/US

; CURRENT APPLICATION NUMBER: US/10/450.763

; CURRENT FILING DATE: 2003-06-11

; PRIOR APPLICATION NUMBER: PCT/US01/08631

; PRIOR FILING DATE: 2001-03-30

; PRIOR APPLICATION NUMBER: 09/540,217

; PRIOR FILING DATE: 2000-03-31

; PRIOR APPLICATION NUMBER: 09/649,167

; PRIOR FILING DATE: 2000-08-23

; NUMBER OF SEQ ID NOS: 60736

; SOFTWARE: Custom

; SEQ ID NO 40265

; LENGTH: 1889

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-450-763-40265

Query Match 98.1%; Score 8835; DB 6; Length 1889;

Best Local Similarity 99.1%; Pred. No. 0;

Matches 1727; Conservative 3; Mismatches 9; Indels 4; Gaps 4;

Qy	15	RSSRELWTLIGRSALRELSQIEAELNKHWRRLLEGLSYKPPSPSSAEKVKANKDVASP	74
Db	7	RSSRELWTLIGRSALRELSQIEAELNKHWRRLLEGLSYKPPSPSSAEKVKANKDVASP	66
Qy	75	LKELGLRISKFLGDEEQSVQLQCYQEDYGRTRDSVKTVLQDERQSQALIKIADYYY	134
Db	67	LKELGLRISKFLGDEEQSVQLQCYQEDYGRTRDSVKTVLQDERQSQALIKIADYYY	126
Qy	135	EERTCILRCVLHLTYFQDERHPYRVEYADVCDVKLEKELVSKYRQPFELKYTEAPTWT	194
Db	127	EERTCILRCVLHLTYFQDERHPYRVEYADVCDVKLEKELVSKYRQPFELKYTEAPTWT	186
Qy	195	HGNLWTERQVSRWFVQCLREQSMLEIIFLYAYFEMAPSDLLVLTNMFQSGFGSROT	254
Db	187	HGNLWTERQVSRWFVQCLREQSMLEIIFLYAYFEMAPSDLLVLTNMFQSGFGSROT	246
Qy	255	RHLVDVETMDPVDVDRIGYFSALILVEGMDIESLHKCALDDRELHOFADQGLTCQDMDCIM	314
Db	247	RHLVDVETMDPVDVDRIGYFSALILVEGMDIESLHKCALDDRELHOFADQGLTCQDMDCIM	306
Qy	315	LTFGDIPHPHAPVLLAWALLRHLNPEETSSVVRKGTGTAIQLNVPQYLTRLLQSLASG	374

Sequence 813, App
Sequence 815, App
Sequence 816, App
Sequence 316, App
Sequence 318, App
Sequence 319, App
Sequence 1217, App
Sequence 1219, App
Sequence 1220, App
Sequence 523, App
Sequence 524, App
Sequence 526, App
Sequence 1513, App
Sequence 1515, App
Sequence 477, App
Sequence 1511, App
Sequence 479, App
Sequence 12455, A
Sequence 8547, App

Db	307	LTFGDIPIHAPVLLAWALLRHTLNPEETSSVRKIGGTAIQLNVFYLTRLQLQSLASGN	366	Db	1387	PSWPGVYRLSMSLMEQLKTLRYNLFPEALDFVGHQERTLOCLNAVRTVQSLACLEAD	1446
Qy	375	DCTTSTACHVCVYGLLSFVLTSLELHTLGNQODIIDTACEVLADPSLPFLFWGTGTEPTSGLG	434	Qy	1455	HTVGFITQLQSNMKEWHFHPQLPMRDIOVNLGVLQOACTSLHRSRKMQLQHYLQNKNGDGL	1514
Db	367	DCTTSTACHVCVYGLLSFVLTSLELHTLGNQODIIDTACEVLADPSLPFLFWGTGTEPTSGLG	426	Db	1447	HTVGFITQLQSNMKEWHFHPQLPMRDIOVNLGVLQOACTSLHRSRKMQLQHYLQNKNGDGL	1506
Qy	435	IILDSVCGMFPPLLSPLQLLRALVSGKSTAKKVYSFLDKMSFYNELYKHKPHDVISHED	494	Qy	1515	PSAVARQVRPPPSAASAAFPSSSKQPAADTEASEQQALHTVQYGLLKILSKTLAALRHFTF	1574
Db	427	IILDSVCGMFPPLLSPLQLLRALVSGKSTAKKVYSFLDKMSFYNELYKHKPHDVISHED	486	Db	1507	PSAVARQVRPPPSAASAAFPSSSKQPAADTEASEQQALHTVQYGLLKILSKTLAALRHFTF	1566
Qy	495	GTLMWRQTPKLYPLGSGQTNLRIPQGTGVQWMLDDRAYLVRWEYSYSSWTLFTCEIEMLL	554	Qy	1575	DVCQILLDQSLDLAEYNFLFALSFTTPTFDSEVAFSGTLLATVNALNMGLDKKKEP	1634
Db	487	GTLMWRQTPKLYPLGSGQTNLRIPQGTGVQWMLDDRAYLVRWEYSYSSWTLFTCEIEMLL	546	Db	1567	DVCQILLDQSLDLAEYNFLFALSFTTPTFDSEVAFSGTLLATVNALNMGLDKKKEP	1626
Qy	555	HVVSTADVIQHCVRPPIIDLVHKVISTDLSTADCLLPITSRIYMLLQRLTTVISPPVDV	614	Qy	1635	LQAVGLSTQAGSTRTLKSLMFTWENCFYLLISOAMRYLRDPAVHPRDKQMKQBELSSE	1694
Db	547	HVVSTADVIQHCVRPPIIDLVHKVISTDLSTADCLLPITSRIYMLLQRLTTVISPPVDV	606	Db	1627	LQAVGLSTQAGSTRTLKSLMFTWENCFYLLISOAMRYLRDPAVHPRDKQMKQBELSSE	1686
Qy	615	IASCVNCLTVLAARNPAKVWTDLRHTGFLPFVAHPVSSLSQMSIARGMNAGGVGNLMMNS	674	Qy	1695	LSTLLSSLSRYFRRGAPSSPA-TGVLPSF-QQKSTSL-KASP-ESQEPILQIVQAFVRH	1750
Db	607	IASCVNCLTVLAARNPAKVWTDLRHTGFLPFVAHPVSSLSQMSIARGMNAGGVGNLMMNS	666	Db	1687	LSTLLSSLSRYFRRGAPSSPA-TGVLPSF-QQKSTSL-KASP-ESQEPILQIVQAFVRH	1746
Qy	675	EOPQGEYGVITAFRLITLTVKGQSGTOSQGLVPCVMFVLEKMLPSYHKWRINSHGVRE	734	Qy	1751	MQR 1753	
Db	667	EOPQGEYGVITAFRLITLTVKGQSGTOSQGLVPCVMFVLEKMLPSYHKWRINSHGVRE	726	Db	1747	MQR 1749	
Qy	735	QIGCLILELHAILNICHETDLHSHSTPSLOFLCICSLAYTEAGOVINIMIGVDTIDM	794	Db			
Db	727	QIGCLILELHAILNICHETDLHSHSTPSLOFLCICSLAYTEAGOVINIMIGVDTIDM	786	Db			
Qy	795	VMAAQPRSDGAEQGGQGLIKTVKLAFSVTNVIRLKPPSNVVSPLSQALSOHGAGNN	854	Db			
Db	787	VMAAQPRSDGAEQGGQGLIKTVKLAFSVTNVIRLKPPSNVVSPLSQALSOHGAGNN	846	Db			
Qy	855	LIAVLAKYIYKHDPALPRLAIQLLKLRLATVAPMSVYACLGNDAAAIRDAFTLRLQSKIE	914	Db			
Db	847	LIAVLAKYIYKHDPALPRLAIQLLKLRLATVAPMSVYACLGNDAAAIRDAFTLRLQSKIE	906	Db			
Qy	915	DMRIKWMLEFLTVAVETPQGLLEFLNLEVKDGSKGSEFSLGMSCLHVALELDSQ	974	Db			
Db	907	DMRIKWMLEFLTVAVETPQGLLEFLNLEVKDGSKGSEFSLGMSCLHVALELDSQ	966	Db			
Qy	975	QDRYWCPLLHRAAIAFLHALWDRDSAMLVLRTPKFWENLTSPLFGTLSPSTSEP	1034	Db			
Db	967	QDRYWCPLLHRAAIAFLHALWDRDSAMLVLRTPKFWENLTSPLFGTLSPSTSEP	1026	Db			
Qy	1035	SILETCALIMKIIICLEIYVYVKGSLDQSLKDTLKFSIEKRFAYWSGYVKSIAVHVAETE	1094	Db			
Db	1027	SILETCALIMKIIICLEIYVYVKGSLDQSLKDTLKFSIEKRFAYWSGYVKSIAVHVAETE	1086	Db			
Qy	1095	GSSCTSLLEYQMLVSAWRMLLIITATTHADIMHUTDSVVRQLFDVLDTGKALLIYPASV	1154	Db			
Db	1087	GSSCTSLLEYQMLVSAWRMLLIITATTHADIMHUTDSVVRQLFDVLDTGKALLIYPASV	1146	Db			
Qy	1155	NCLRLGSMKCTLLILRLQWKRELGSDVDEILGPLETEILGVLQADQOLMEKTKAKVFSAF	1214	Db			
Db	1147	NCLRLGSMKCTLLILRLQWKRELGSDVDEILGPLETEILGVLQADQOLMEKTKAKVFSAF	1206	Db			
Qy	1215	ITVLQMKEMKVSIPQYSQVLNVNVCETLQEBEVALFDQTRHSLALGSATEDKDSMETDDC	1274	Db			
Db	1207	ITVLQMKEMKVSIPQYSQVLNVNVCETLQEBEVALFDQTRHSLALGSATEDKDSMETDDC	1266	Db			
Qy	1275	SRSRHRDQRDGVCLGHLHAKELCEVDEDDGSLWQVTRRLPIPLTLTTLEVLRLMKQNL	1334	Db			
Db	1267	SRSRHRDQRDGVCLGHLHAKELCEVDEDDGSLWQVTRRLPIPLTLTTLEVLRLMKQNL	1326	Db			
Qy	1335	HFTFATLHLLTLARTOOGATAVAGITOSICLPLLSVYQLSTNGTAQTPSARSKSLDA	1394	Db			
Db	1327	HFTFATLHLLTLARTOOGATAVAGITOSICLPLLSVYQLSTNGTAQTPSARSKSLDA	1386	Db			
Qy	1395	PSWPGVYRLSMSLMEQLKTLRYNLFPEALDFVGHQERTLOCLNAVRTVQSLACLEAD	1454	Db			

RESULT 2

US-10-450-763-40264
; Sequence 40264, Application US/10450763
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790CIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 40264
; LENGTH: 100
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-450-763-40264

Query Match 5.0%; Score 446; DB 6; Length 100;
Best Local Similarity 100.0%; Pred. No. 8e-27; Indels 0; Gaps 0;
Matches 90; Conservative 0; Mismatches 0

Qy	1185	LGPLETILEGVQLQADQOLMEKTKAKVFSAFITVLQMKEMKVSIPQYSQVLNVNVCETLQE	1244
Db	4	LGPLETILEGVQLQADQOLMEKTKAKVFSAFITVLQMKEMKVSIPQYSQVLNVNVCETLQE	63
Qy	1245	EVIALPDQTRHSLALGSATEDKDSMETDDC	1274
Db	64	EVIALPDQTRHSLALGSATEDKDSMETDDC	93

RESULT 3

US-60-664-936-325
; Sequence 325, Application US/60664936
; GENERAL INFORMATION:
; APPLICANT: JOSELOFF, Elizabeth et al.
; TITLE OF INVENTION: KIDNEY DISEASE TARGETS AND USES THEREOF
; FILE REFERENCE: CLO01591
; CURRENT APPLICATION NUMBER: US/60/664,936
; CURRENT FILING DATE: 2005-03-25
; NUMBER OF SEQ ID NOS: 2456

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 325
; LENGTH: 2012
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-664-936-325

Query Match      3.2%; Score 292.5; DB 8; Length 2012;
Best Local Similarity 18.9%; Pred. No. 7.2e-13;
Matches 416; Conservative 303; Mismatches 743; Indels 741; Gaps 104;

Qy 41 NKHRRLLG-----LSYK--PPSPSSAEKV-KANKDVASPLKELGR- 81
Db 26 NALMRQPEAVHLLDKILKHKPDISLFXKPPKXVQOHEKVQKASTEGVAIQOQGRL 85
Qy 82 -----ISKFLGDEQSVQLQC--YLQEDYRG-TRDSVKTVLQDERQSQALIL 127
Db 86 LPEQLIKAFILSDLFDIGELAAVELLLAGEHQHPGLRGLVAVLL----- 134
Qy 128 KIADYYBERTCILRCVILHL-----TYQDERHPYRVEYADCVD 167
Db 135 -----YWDGKCIANSKALIQSRGKTWLTLELSPELASMTTRFTDLMEOQLTYKVL- 188
Qy 168 KLEKELVSK--YRQFEELYKTEAPTETHGNLMTROVSRWFVOCLEQSKMLLEIFLY 225
Db 189 -----LVSQIDVNNFEKLOREGIGSEKH-----RKEVSDLIKEC---RQSLAESLPAW 235
Qy 226 YAYFMAFSDLLVLTMKFKEQFGSGRQTRNLHVDETMDP--FVDRIGYFSAIILVEGMDI 283
Db 236 ACQSPGKEDTILLI-----GHLERVTVANGSLDANLALLMALLYCFDI 281
Qy 284 -----ESLHKCALDRRE-----LHQAQDGLICQDMCLMLTFGDI PH- HAPVL 327
Db 282 SFIEQSTEERDDMIHQPLLTKEQVIATIHSLRQDSQLWK-----LPGLQATVR 330
Qy 328 LAWALLRHTLN--PE-----ETSSVVRKIGGTAGIQLNFOYLTRLLQSLASGNDCTTST 380
Db 331 LAWALLRGTISQLPDVTALAEFTEADEAMALAIADNVFLF---LMESVVVSVFYQBEF 387
Qy 381 ACMCVYGLLS--FVLTSLELHTGNQD---IIDTACEVLNADPSLP----- 421
Db 388 YIRRVHNLITDFLAMPKMKVQLNRNADEDARKIMHSMQMGNEPISLRDLHMLLIG 447
Qy 422 -----ELFWGTEPT-----SGLG-----IILDSVCGME-----P 445
Db 448 ELYKKNPHELEALAEVWCPTPELQPTIMGSLYGVAHQRPQOVVLSKFVRQMGDLPP 507
Qy 446 HLLSPILQLLRALVSGKSTAKVYFLDKMSFYNELYKHKPHDVISHEDGTLRRQTPKL 505
Db 508 TIYIPYKMLQLANGPQCAHYCFSL----- 534
Qy 506 LYPLGQTNLRIPQGTGQVMDLDRAYLVRWEYSYSSWTLFTCEBTEMLLHVYSTADVIOH 565
Db 535 ---KVGSSGHVENIQAGSGP-----VSWEHFFHSLMLYH---EHLKOLPSADSVOY 581
Qy 566 CORVKPIIDLHVKVIATDLSIADCLLPITSRIYMLLQ--RLPTVISP---PVDVIASCVN 620
Db 582 --RHLPSCRITOK--EQDGLIA--FLQLTSTIITWSENARLALCEHPQWTPVVVILGLQ 635
Qy 621 C-----ITVLAA--RNP--AKVWTDLRHTGFLPFVAHPVSSLSQMSIASEGMNAG 665
Db 636 CSIPVPLKAECLKTLAAFGKSPKPEIAASLWQSLLEYTQILQTVRIPSRQRAIGIEVE--- 690
Qy 666 GYGNLLMSEQOQGVGTIIFRLITLTVKQLGSGTQSGQL-----VPCVMFVLKEMPL 720
Db 691 -----LNEIESRCEEYPLTRAFQCLISTLVSSFPNLAGURPGPGFDYLOFLRDSVFL 745
Qy 721 SYHKWRYNSHGVREIQICLILEILHAILNLCHETDLHSHSTPSL-----QFLCIGS---L 772
Db 746 RFRTRAYRAAEKWEVAEVLVEVFKLLR-----DYEPOLED FVDVDFVLOGBEII 796
Qy 773 AYTEAG-----OTVINIMGIGVDTIDMVMMAQPRSDGAEQGGQGLIKTV 818
Db 773 VCLFTPSLSETVNRDGPQDQAPVVPYWRULPGLGIIIIYLLKQSANDFSYDHSRQSVS 1838

797 AYKPPGFSMLHLLNESPMLELALSLLEBQVKQLD-TYAPFGKKHLEKAYQHCIALNL 855
819 KL-AFSTVNNVIRLKPPSNVVSPLQAL---SOHGAHGNLLIAVLAKYIYHKHDPALPRL 874
856 TLQKENLFMDLLRESQALIVCPLEQLLQGINPRTKADNVVNI--ARYLYHGN--TNDEL 912
875 AIQLLKELATVAPMS-----VYACLGNDAAA--IRDAFLTRL 909
913 AFESAKTLCCISCNSNTQIKLVGDFTHDQSIQSKLMAGFVECLDCEDAEFVRLEEGSEL 972
910 QSKIEDMR--IKWMILEFLTVAVEQTQGLIELF--LNLEVKDGDGSKSEFSLGMW---SC 962
973 EKKLVARETHRIHLLNLLITSLCNPNNALYLLGFELKKPVSVTNNLQDFGVLGCPRTC 1032
963 LHAVLELDSQQOQDRYWCMPPLHLRAAIAFLHALWQ-----DRRDSAMLVRTKPKF 1013
1033 LHAILNILEKTEGR--TGPVAVRESQALBCLQVYIQLCACSDTSGPTMRYLRTSQDF 1090
1014 WENLTSPLFGTILS--PPSETS--EPSILETCALIMKILCLEIYVVVKSGLDQSLKDT--- 1066
1091 -----LFSQLQYLFPFNKEYEISMLNQMSLWMLKTASIELRVT---SLNRQSHQTRLL 1140
1067 -----LKKFS-----IEKRFAYWSGY----- 1082
1141 HLLDDMPVKPYSDGEGIEDENRSVSGFLHFDPTATKVRKILNLDLSIDFSQRIPELQ 1200
1083 -----VKSL-AVHVAETEG-----SSCT 1099
1201 LDFDRAQIEQVIANCEHKNLRGQTVCNKLLHRLVAEVNALQGMMAIGORPLLMBSIS 1260
1100 SLLEY-----QMLVSAWRML--LIATTHADIMHLLTD-SVVRQLFLDV-- 1140
1261 TVLQYVYGRNKLQCLHAKHRALESWRQLVFIILITACPDLIQABEDRLIIRDILOQVHD 1320
1141 --LDGTALLVPAVSNCLRLGSMKCTLLILLRQWKRELGSVDILGP----- 1187
1321 KILDEAAQELMPVVAQA--VFTLTAHLSQAVLTEQKQ-----TSVLGPAEHAHYAFMLDS 1373
1188 -----LPEILEGVLAQDQOLMEKTKAKVSAFIVLQMK 1221
1374 CFTSPPEENPLVGFASIGDSSLYILKLLDFILKTGGG--FORVTRHLSGLLYLOIA 1432
1222 E-----MKVSDIPQYSQVLV--NVCETLOEVSIALFDQTRHSLALASATED---KDSM 1269
1433 QRPEPDPTLEAAKKTWMLERTAPEDVFSKLQRENIATIE-----SYGAALMEVVCRCAC 1486
1270 ETDDCSRRHRDQDQGVCLGLHLAKELCEVEDGDSMLQVTRRLPILPTLLTLEVSILR 1329
1487 DGHEIGR-----MLALALLDRIVSVDKQ--QOMLLYLSNSGYLKVLVDSILVEDDR 1534
1330 MKQN-----LHFEATLHLLLTARTQOGATAVAGAGITQSIQICLPLLSVYQLST 1378
1535 TLQSLLTLPQPLLKALYTESKMAFLTRVAKIQOGALELLRSGVI--VRLAQCVYDMRP 1592
1379 NGTAQTPASR--KSLDAPSWFGVRLSMLMEQLLTLRYNPLFLPALDFVG-----VHQ 1431
1593 ETDQPSMGMRDPPMFIPTPVDYRQIILLPALQCVILTSSMAHQLOAGOVLOFLISH 1652
1432 ERTLOCLNAVTRVQSLACLBEADHTVGFILQSLNFMKEMHPLPOLMR--DIQVNLGYLC 1489
1653 SDTIQAILRQDQV--SAGSLQELALLTGIIISKAA-----LPGILSLEDVDVNEGSLM 1702
1490 Q-----ACTSLH-----SRKMLQHYLQNKNGDGLPSAVAQVRQRPSPSAASAAPSS 1535
1703 ELQHGHRFQRCGLLSRFGGSDRLRQFKFQDDNVEG-----DKV 1743
1536 SKQPAADTEASEQQAHLTVQVGLLKILSKTLAALRHFTPDVCOILLDQSLDLAEYNFLPA 1595
1744 SKKDBIEL-AMQOICANVMEY-----CQSLMLOS-----SPTFOHA 1778
1596 LSPTTPTDSEV-----APSGFTLLATVNVALLN-----MLG 1626
1779 VCLFTPSLSETVNRDGPQDQAPVVPYWRULPGLGIIIIYLLKQSANDFSYDHSRQSVS 1838
```

QY 1627 EL-----DKKEPLTQAV-----GLSTQAE-----GTRTLKSLMFTM 1659
 Db 1839 KLNQVQLPPDEIJE-LCQSWMPAGVDKISTAQYVLLARRLVKVINNRKALLUSCSFII 1897
 QY 1660 ENCFYLLISQAMRYLRDPVAVH--PRDKQRMKQBELSELSTLLSSLSRYFRRGAPSSPATG 1717
 Db 1898 ETCLFIL-----WRHLEYLLHCMPDTSQ-----DSLFSRITLPKSRRLQDSFAS- 1942
 QY 1718 VLSPQCKSTSL---SKAPESQELIQL-----VQAFVRHMQR 1753
 Db 1943 -----ETNLDPRSGLAIVSQHDLQDQADAINAFGESLQK 1977

RESULT 4
 US-60-701-038-305
 ; Sequence 305, Application US/60701038
 ; GENERAL INFORMATION:
 ; APPLICANT: JOSELOFF, Elizabeth et al.
 ; TITLE OF INVENTION: KIDNEY DISEASE TARGETS AND USES THEREOF
 ; FILE REFERENCE: C0001616
 ; CURRENT APPLICATION NUMBER: US/60701,038
 ; CURRENT FILING DATE: 2005-07-21
 ; NUMBER OF SEQ ID NOS: 1828
 ; SOFTWARE: Fast-Seq for Windows Version 4.0
 ; SEQ ID NO 305
 ; LENGTH: 2012
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-60-701-038-305

Query Match 3.2%; Score 292.5; DB 8; Length 2012;

Best Local Similarity 18.9%; Pred. No. 7.2e-13; Indels 741; Gaps 104;
 Matches 416; Conservative 303; Mismatches 743;

QY 41 NKHWRLLLEG-----LSYK--PPSPSSAEKV-KANKDVASPLKELGLR- 81
 Db 26 NALWRRQPEAVHLDDKILKHKHDFLSLKNPPQVQHEKVKQKASTEGVAIQOQGTSL 85
 QY 82 -----ISKFLGDBEQSVQLQC--YLQEDYRG--TRDSVKTVLQDERQSQALIL 127
 Db 86 LPBQLIKEAFILDFDIGELAAVELLAGEHQHPFGLTRGLVAVLL----- 134
 QY 128 KIADYVEERTCILRCVHLH-----TYQERHPYRVEYADCVD 167
 Db 135 -----YMDGKRCIANSUKALIQSRGKTWTLELSPELASMTTPTDELMEQGTYKVL- 188
 QY 168 KLEKELVSK--YRQOFPELYKTEAPTWEHGNLMTQVSRWFVQCLREQSMLEIIFLY 225
 Db 189 -----LVSQIDVNNFEKQLQERGLGSEKH-----RKEVSDLIKEC--RQSLAESLFAW 235
 QY 226 YAYFEMAPSLLVLVTRMFKEQGGFSGRQTNRHVLVDENMDP--FVDRIGYFSAIILVGEQDI 283
 Db 236 ACQSPGLKEDTLII-----GHLERVTVVEANGSLDANVALLMALLYCFDI 281
 QY 284 -----ESLHKCALDDRE---LHQAQDGLICQDMCLMTFGDIPH-HAPVL 327
 Db 282 SFTEQSTEEDDMIHQPLTEKQYIATISRLQDSQLWK-----LPGLQATVR 330
 QY 328 LAWALLRHITLN--PE-----ETSSVVRKIGGTALQNLVFOYLTRLQLQSLASGGNDCTTST 380
 Db 331 LAWALALRGISQLPDVTALAEFTDEAMEALADNVLF--LMSVVVSVFFYQEEF 387
 QY 381 ACMCVGLLS--FVLTSLELHTLGNQD-----IIDTACEVLADPSLP----- 421
 Db 388 YIRRVHNLITDFALMPKVKQLRNRADEARMTHMSQMGNEPPISLRDLHLMLLIG 447
 QY 422 -----ELFWGTEPT-----SGLG-----IILDSVCGMF-----P 445
 Db 448 ELYKKNPFHELEALEYWCPTPELQPTPTMGSYLGVAHQPPQVQLSKFVRQMGDLLPP 507
 QY 446 HLLSPLQLLRALVSGKSTAKVYSFLDKMSFYNELYKHPHDVISHEDGTLLWRQTPKL 505

Db 508 TIIVPYLKMQLQGLANGPOCAHYCFSL----- 534
 QY 506 LYPGLGQTNLRIPQGTVGQVMLDDRAYLVRWEVSYSSWTFTCEIRMLLHVSTADVIOH 565
 Db 535 --KVGSSSHVENIQAGGSP-----VSWEHFFHSLMLYH---EHLRKDLPSADSVQY 581
 QY 566 CORVKPIIDLVHVKVISTDLSIADCLLPITSRYMLLQ--RLTTVISP---PVDVIASCVN 620
 Db 582 --RHLPISRITQK--BQDGLIA--FLQJSTIITWSENARLALCEHPQWTPVVVILGLLQ 635
 QY 621 C-----LTVLAA--RNP---AKWTDLURHTGFLPFVAHPVSSLSQMSIABGMNAG 665
 Db 636 CSIPPPVLKAECLKTLAAFGKSPBIAASLWQSLEYTQILQTVRIPSORQAIIEVE----- 690
 QY 666 GYGNLLMNSQEQGEYGVITAFRLITITLAVKQGLSTQSQGL-----VPCVMFVLKEMLP 720
 Db 691 -----LNEIESRCEEYPLTRAFQCLISTLIVESSFPSNLGAGLRPPGDFPYLQLRDSVFL 745
 QY 721 SYHKWRYNSHGVREQIGCLILELIHAILNLCHETDLHSSHTPSL-----QFLCICS---L 772
 Db 746 RFRTRAYRRAAEKWEVAEVLEVFFYKLR-----DYEQLEDVFDQFVLEQGEII 796
 QY 773 AYTEAG-----QTVINIMGIGVDTIDMMAAQPRSDGAEQGGQQLIKTV 818
 Db 797 AVKPPGFSLMYHLLNESPMLLALSLEBQVKQLD-TYAPFPKGKHLKAVQCHCLALLNL 855
 QY 819 KL-AFQSVTNVIRLKPPSNVVSPLQAL---SOHGAHGNLLIATLAKYIYHKHDPALPRL 874
 Db 856 TLQENLFMDLRESQALIVCPLEQLQGINPRTKKADNVVNI--ARYLHGN--TNPEL 912
 QY 875 AIQLKLRLATVAPMS-----VYACLGNDA---IRDAFLTRL 909
 Db 913 AFESAKILCCISNSNIQIKLVGDFTHDOSISQKLMAGFVECLDCDAEEFVLEBGSSEL 972
 QY 910 QSKIEDMR--IKVMILEFLTAVETOPGLIEIF-LNLEVKDSDGSKFSLGMW-----SC 962
 Db 973 EKKLVAIRHETRIHILNLLITSLECNPPNLAALYLLGFLKPKPVTSTNLQDPGVLCGPRTC 1032
 QY 963 LHAVLELIIDSDQODRYWCPLHLHRAAIFLHALWQ-----DRDSAMLVLRTPKF 1013
 Db 1033 LHAAILNLSKTEGR--TGPVAVRESPQLAELCYQVIYQLCACSDTSGTMYRLTSQDF 1090
 QY 1014 WENLTSPLFCTLS--PPSETS-EPSILETCALIMKIICLEIYVYVVGKSLDQSLKDT--- 1066
 Db 1091 -----LFSQLQYLPFSNKEYEISMLNQMSLWMLKTASIELRV---SLNRQSRHTQRL 1140
 QY 1067 -----LKKFS-----IEKRFAYWGSY----- 1082
 Db 1141 HLLDDMPVKPYSDGEGIEDENRSVSGFLHFDATKVRKILNILDSDFSOEIPEPLQ 1200
 QY 1083 -----VKSL-AVHVAETG-----SSCT 1099
 Db 1201 LDFDRAQIEQVANCEHKNLRGQTVCNKLRHRLVLAENVNALQGMAAIGQRELLMBEIS 1260
 QY 1100 SLLEY-----QMLVSARML--LIATTHADIMHLD--SVVRRQLFLDV-- 1140
 Db 1261 TVLQYVVGNKLLQCLHAKHSALESNRQVLEIILTACPDQLQAEDRQLIIRDILODVHD 1320
 QY 1141 --LDGTKALLVPASVNCILRGLSMKCTLLIILRQMKRELGSVDEILGP----- 1187
 Db 1321 KILDDEAAQELMPVWAGA--VFTLTAHLSQAVLTEQK-----TSVLGPAEAHYAFMLDS 1373
 QY 1188 -----LTEILEGLQADQQLMKTAKVPSAFITVLOMK 1221
 Db 1374 CFTSPPEENPLVGFASIGDSSLIYILKLLDPLTKTGGG-FORVTHLYGSLYLYQIA 1432
 QY 1222 E-----MKVSDIPOSQVL--NYVCTEQEEVIALFDQTRHSLGALGATED---KDSM 1269
 Db 1433 QRDEPDTLEAAKKTWERTAPEDVFSKLQRENIAB-----SYGAALMEWVCRDAC 1486
 QY 1270 ETDDCSRSHRDQDGVVGLHLAKELCEVDDGDSWQVTRRLPILFTLLTLEVSLR 1329
 Db 1487 DGHEIGR-----MLALALLDRIVSDKQ-QQWLLYLSNSGYLKVLDVSLVEDDR 1534


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QY 1083 -----VKSL-AVHVAETEG-----SSCT 1099
Db 1201 LDFDRAQIEQVIANCEHKNLRGTCVNCVKLHRVLVAE VNALQGMAAIGQRPLLMEEIS 1260
QY 1100 SLLEY-----QMLYSARML--LIIATTHADIMHLD--SVVRRQLFDV-- 1140
Db 1261 TVLOYVVGRNKLQCLHAKHALESWRQLVEIILTACPDQLQAEQDRQLIIRDLOVDHD 1320
QY 1141 --LDGFKALLVPASVNCVRLGSMKCTLLILLRQWRKRGSLGVSDEILGP----- 1187
Db 1321 KILDEAAQALMPVWAGA--VFTLTAHLSQAVLTEQK-----TSVLGPAEAHYAFMLDS 1373
QY 1188 -----LITELEVLQADQOLMEKTKAKVPSAFITVLQMK 1221
Db 1374 CFTSPPEENPLVPFASIGDSSLIYILKLLDPLFKTGGG--FORVTHYGLSLLYLQIA 1432
QY 1222 E-----MKVSDIPIVSQVLV--NVCETLQEEVIALFDQTRHSLALGATED---KDSM 1269
Db 1433 QRPDEPTLEAAKKTWMERLTAPEDVFSKLORENALIE-----SYGAALMEVVCRDAC 1486
QY 1270 ETDGCRSHRDQDGVCVGLHAKELCHEVDGDSWLQVTRRLPILPTLLTLEVSUR 1329
Db 1487 DGHEIGR-----MLAALLDRIVSDKQ--QOWLLYLSNSGYLVKLVNDSLVEDDR 1534
QY 1330 MKQN-----LHFTTEATLHLLTLARTOOGATAVAGITQOSICLPLLSVYQLST 1378
Db 1535 TLQSLTTPQPLKALYTESKMAFLTRVAKIOGGALELRSVI--VRLAQCVQYDMRP 1592
QY 1379 NGTAQTPSASR--KSLDAPSGVYRLSMLSMEQLKTLRYNPLPEALDFVG-----VHQ 1431
Db 1593 ETDQSMFGNRPDPMFTPTVDYRQILLPALQVCVILTSSMAQHLQAAGQVLQFLISH 1652
QY 1432 ERTLQCLNAVTVQSLAEAEADHTVGFILQLSFNKWHFHPQLMR--DIOVNLGYLC 1489
Db 1653 SDTIQAILRCQDV--SAGSLQELALLTGIIISKAA-----LPGILSELDDVDNEGSLM 1702
QY 1490 Q-----ACTSLH-----SRKMLQHVQNKNGDGLPSAVAQVRPPSAASAAPSS 1535
Db 1703 ELQGHIGRFORQCLGLLRRGGSDRLQKFKQDNVEG-----DKV 1743
QY 1536 SKOPAADTEASEQALHTVOYGLLKILSKTLAALRHFTPDVCQILLDQSLDLAEYNFLFA 1595
Db 1744 SKKDEIEL-AMQICANVMEY-----CQSLMQS-----SPTFQHA 1778
QY 1596 LSTPTPTFDEV-----APSGILLATVNVALN-----MLG 1626
Db 1779 VCLFTEPSLSETVRDGPDTQAPVVPYWRPLGGLHIIYLLKQSANDFFSYSDSHRQSVS 1838
QY 1627 EL-----DKKEPLTOAV-----GLSTQAE-----GTRTKSLLMFTM 1659
Db 1839 KLNVEQLPPEIKE--LCQSWPAGVDVKISTAQYVLARRRLVKVINNRKLLSLCSFII 1897
QY 1660 ENCFYLLISQAMRYLRDPVAVH--PRDKQRMKQELSELSTLLSSRYFRGRAPSSPATG 1717
Db 1898 ETCLFIL-----WRHLEYLLHCHMPTDSQ-----DSLFASTRILFKSRRLLQDSFAS- 1942
QY 1718 VLPSPOKSTSL---SKASPESQELIQL-----VQAFVRMQR 1753
Db 1943 -----ETNLDPRSGLAIVSQHDLQLOQADAINAFGESLOK 1977
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RESULT 6

```
US-60-717-196-497
; Sequence 497, Application US/60717196
; GENERAL INFORMATION:
; APPLICANT: Mehdi MESRI et al.
; TITLE OF INVENTION: STOWACH DISEASE TARGETS AND USES THEREOF
; FILE REFERENCE: CL001631
; CURRENT APPLICATION NUMBER: US/60717,196
; CURRENT FILING DATE: 2005-09-16
; NUMBER OF SEQ ID NOS: 2826
; SOFTWARE: FastSeq for Windows Version 4.0
```

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; SEQ ID NO 497
; LENGTH: 2012
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-717-196-497
```

Query Match 3.2%; Score 292.5; DB 8; Length 2012;

Best Local Similarity 18.9%; Pred. No. 7.2e-13;

Matches 416; Conservative 303; Mismatches 743; Indels 741; Gaps 104;

QY 41 NKHWRRLLEG-----LSYYK--PPSPSSAEKV-KANKDVASPLKEIGLR- 81

Db 26 NALWRRQPEAVHLLDKILKKHKPDPFISLFKNPPKNVQCKEYQKASTEGVIAQGGQTRL 85

QY 82 -----TSKFLGDEEOSVQLQOC--YLOEDYRG-TRDSVKTVLQDERQSQALIL 127

Db 86 LPEQLIKEAFIUSDLPDIGELAAVELLLAGEHQPHFGLTRGLVAVLL----- 134

QY 128 KIADYYVEERTCITLRCVLHLL-----TYFQDERHPYRVEYADCVD 167

Db 135 -----YWDGKRCIANSLKALIOSRRGKTWTLSELSPELASMTTRFTDELMEQGLTYKVLT- 188

QY 168 KLEKELVSK--YRQOPEELYKTEAPTWETHGNLMTERQVSRMVFVQCLRQSMLEILFLY 225

Db 189 -----LVSQIDVNNPEKQLQERGLGSEKH-----RKEYSDLIKEC---RQSLAESLFAW 235

QY 226 YAYFEMAPSDLLVLTMFKEQGSGRQTNRHVLVDETMDP--FVDRIGYFSALILVEGMDI 283

Db 236 ACOSPLGKEDTLLLI-----GHLERVTVANGSLDVAVNLALLMALLYCFDI 281

QY 284 -----BSLHKCALDDRRE-----LHQAQADGLICQDMDCMLMTFGDIPH-HAPVL 327

Db 282 SFIEQSTEERDDMIHQPLLTETEKQIYATIHSLRQDSQLWK-----LFGLOQATVR 330

QY 328 LAWALLRHITLN--PE-----ETSSVVVKITGGTAIQINVFQYLRLLQSLASGNDCTTST 380

Db 331 LAWALALRGISQLPQDVTAALAEFTEADEMAELAADNVFLF---LMESVVVSEFYQEEF 387

QY 381 ACMCVYGLLS--FVLTSLEHLTGNOOD---IIDTACEVLADPSLP----- 421

Db 388 YIRRVNHLITDFALMPKVKQLNRNADBDARMIHSMQMGNEPPISLRDLHMLLIG 447

QY 422 -----ELFWGTEPT-----SGLG-----IILDSVCGMF-----P 445

Db 448 ELYKKNPFHLEALEYWCPTPLQPTPTIMGSVLGVAHQRPQQRQVLSKFRVQMGDLPP 507

QY 446 HLLSPQLQLRALVSKSTAKKYVSFLDKQMSFYNELYKHKPHDVISHEGTLWRRTPKL 505

Db 508 TIYIPLYKMLQGLANGPOCAHYCFSL----- 534

QY 506 LYPFGGOTNLRIPQGTGVQVMLDDRAYLVREYSYSSWTLFTCEIEMLLHVSTADVIQH 565

Db 535 --KVGSSHVNIQAGGSP-----VSWEHFFHSLMLYH---EHLRKDLFSASVOY 581

QY 566 CORVKPIIDLVHVKVISTDLSDIADCLLPITTSRIYMLLQ--RLFTVISP---PVDVIASCVN 620

Db 582 --RHLFSRGITQK--EQDGLIA--FLQLTSTIITWSENARLALCEHPQWTPVVVILGLLQ 635

QY 621 C-----LTVLAA--RNP---AKVWTDLRHTGFLPFAVHPVSVLSQMSIAEGNNAG 665

Db 636 CSIPPVKKAELKTLAAGKSPESIAASLWQSLEYTQILOTVRIPSORQAIQIEVE----- 690

QY 666 GYGNNLLMNSEPOQGEYGVITAFRLITLTVKQGLGSTQSQGL-----VPCVMVFLKEMLP 720

Db 691 -----LNEIESRCEEYPLTRAFQCLISTLVSESSFPNGLNGLRPPGDFYLOLRSVFL 745

QY 721 SYHKWRYNSHGVREQICGLILELIHAILNLCHEFDLHSSHPTSL-----QFLCICS---L 772

Db 746 RPRTRAYRAAEKWEVAEVVLEVYKLLR-----DYPEQLEDVFDQFVLEQGEI 796

QY 773 AYTEAG-----QTVINIMTGVDTIDMVMMAAQPRSDGAEQGGQQLIKTV 818

Db 797 AYKPPGFSLMYHLLNESPMLLEALSLEBEGVKQLD--TYAPFPCKKHLEKAVQHCLALNL 855


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QY 506 LYPLGQTNLRIPQGTGVQVWMLDDRAYLVREWEYSYSWTILFTCEIEIMLLHVSTADVIOH 565
Db 535 --KNGSGSHVENIQAGGSP-----VSWERHFHSLMLYH--EHLRKDLPASVSQY 581
QY 566 CQVKPIIDLVHVKVISTDLSIADCLLPITTSRIYMLQ--RLTTVISP--PVDVIASCVN 620
Db 582 --RHLPSRGITQK--BQDGLIA--FLQLTSTIITWSENARLALCEHPQWTFVIVILGLLQ 635
QY 621 C-----LTVLAA--RNP--AKVWTDLRHTGFLPFVAVHPVSLSQMISABGNMAG 665
Db 636 CSIPPVKABELLTLAAFGKSPBAASLWOSLEYTQILQTVRIPSORAIGIEVE-----690
QY 666 GYGNLWNSPOGEGVITAFRLTLITLVKQGLQSTQOGL-----VPCVMVLEKEMPL 720
Db 691 -----LNEIESRCEEPLTRAFCOLISTLVESSFPNLAGLRPPGDFPYLQFLRDSVFL 745
QY 721 SYHKWYNHSHGVEQICGLILEIHLAILNICHETDLHSSHTPSL-----QFLCICS--L 772
Db 746 RPTRAYRRAAEKWEVAEVLEVFKLRL-----DVEPQLEDVDFVQFVELQGEI 796
QY 773 AYTEAG-----QTVINIMIGVDTIDMVMMAQPRSDGAEGOGQQLIKTV 818
Db 797 AYKPPGFSMLYHLLNESPMLEALSLEEGVKQLD--TYAPPFGKHLEKAVQCHLALLNL 855
QY 819 KL-AFSTVNNVIRLKPSPNVVPLEQAL---SQHGAHNNLIAVLAKYIVYKHDPALPRL 874
Db 856 TLOKENLFDMLRESQALIVCLEQLLOGINPRTKKADNVVNI--ARYLYHGN--TNPEL 912
QY 875 AIQLLRLATVAPWS-----VYACLGNDAAA--IRDAFLTRL 909
Db 913 AFESAKILLCISCSNISIQLKVGDFTHDQISQKLMAGFVECLDCEDAEFVLESGSEL 972
QY 910 QSKIEDMR--IKVMILEFLVAVETOPGLIELF--LNLVKGDSGSKFPSLGMW-----SC 962
Db 973 EKKLVAIRHETRIHILNLLITSLECNPPNIALYLLGPELKKPVSTTNLQDPGVLCGPRTC 1032
QY 963 LHAVALLEIDSOQDQRYWCPLHRAAIAFLHALWQ-----DRDSAMLVIRTKPKF 1013
Db 1033 LHAILNILEKGTGR--TGPVAVRESQALAEICQVIYQICACSDTSGTGMRYLRTSQDF 1090
QY 1014 WENLTPSLFTLS--PPSETS-BPSILETCALIMKIICLIYVYVKGSLDQSLKDT----1066
Db 1091 -----LFSQQLVLPSPNKEYEISMLNOMSLMKTASIELRVT--SLNRQSRHTQRL 1140
QY 1067 -----LKKFS-----IKRFAYWGY-----1082
Db 1141 HLLDDMPVKPYSDGEGGIEDENRSVGFHFDATKVRKRKILNILDSDIFSQEIPEPLQ 1200
QY 1083 -----VKSL-AVHVAETEG-----SSCT 1099
Db 1201 LDFDRAQIEQVIANCEHKNLRGTCVKNLHRLVLAENVNALQGMMAIGQRPILMBEIS 1260
QY 1100 SLLEY-----QMLVSARML--LIIATTHADIMHLD--SVVRRQLFLDV--1140
Db 1261 TVLQYVVGKRLKLOCLHAKHSALESWQVLEIILTACPDQLIOAEDQLIIRILQDVHD 1320
QY 1141 --LDGTKALLVPAVNCVRLGSKMCKTLLILLIRQWKRRELGSDVEILGP-----1187
Db 1321 KILDDEAAQELMPVWAGA--VFTILTAHSQAVLTEQKQ-----TSVLGPAEAHYAFMLDS 1373
QY 1188 -----LTEILGVLOAQDQQLMEKTKAVFSAFITVLOMK 1221
Db 1374 CFTSPPEENPLVGAISGSSLYIILKLLDFLTKTGGG--FORVTRHLYGSLLYYLQIA 1432
QY 1222 E-----MKVSDIPQYSQVLV--NVCETLQEEVIALFDQTRHSLALGSATED---KDSM 1269
Db 1433 QRPDEPTLEAAKKTWMERLTAPEDVFSKLQRENIAIE-----SYGAALMEVVCRDAC 1486
QY 1270 ETTDCSRHRDQDQGVCVLGLHAKELCEVDEGDSWQLQVTRRLPLPILTLITVLSLR 1329
Db 1487 DGHEIGR-----MLALALLDRIVSYDKQ--QQWLLYLSNSGYLVKLVDSLVBDDR 1534
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QY 1330 MKQN-----LHFTTEATLHLLTLARTQOQATAVAGAGITQISICLPLLSVVQLST 1378
Db 1535 TLQSLITPOPPLLKALTYTESKMAFLTRVAKIQOGALELLRSQVI--VRLAQOQVDMRP 1592
QY 1379 NGTAQTPSASR--KSLDAPSWPGVYRLSMLBOLLKTLRYNLFPEALDFVG-----VHQ 1431
Db 1593 ETDPOQSMFGMRDPPMFIPTFVDYRQIILLPALQCOVILTSSMAOHLQAAGQVLOFLISH 1652
QY 1432 ERTLOCLNAVRTVQSLACLEADHTVGFITLOLSNFMKEWHFHLPOLMR--DIOVNLGYLC 1489
Db 1653 SOTIQAILRCQDV--SAGSLQELALLTGIIISKAA-----LPGILSELVDVVDNEGSLM 1702
QY 1490 Q-----ACTSILH-----SRKMLQHYLQNKNGDGLPSAVAQVRQPPSAASAAPSS 1535
Db 1703 ELQCHIGRFQRCQLGLLSRFGGSDRLRQFKFQDDNVEG-----DKV 1743
QY 1536 SKOPAADTBAEQOALHTVOYGLLKILSKTLAALRHFTPDVCOILLDQSLDLAEYNFLFA 1595
Db 1744 SKKDETEL-AMQOICANVMEY-----CQSLMLQS-----SPTFQHA 1778
QY 1596 LSETTPTPDEV-----APSGFTLLATVNVVALN-----MLG 1626
Db 1779 VCLFTPSLSETVNRDGPQDQTPAVVYVWRLPGLGIIILYLLKOSANDFFSYDSHRQSVS 1838
QY 1627 EL-----DKKKEPLTOAV-----GLSTQAE-----GTRTLKSLMLFTM 1659
Db 1839 KLQNVQQLPPDEIKE--LCQSVMPAGVDKISTAQKYVLABRRRLVKVINRAKLJSLCSFII 1897
QY 1660 ENCFYLLISOAMRYLRDPAVH--PRDKQMKQELSELSTLLSSLSRYFRRGAPSPSPATG 1717
Db 1898 ETCLFILL--WRHLEVYLLHCTMDSQ-----DSLFASTRLFKSRRLQDSFAS--1942
QY 1718 VLPSPOGKSTSL---SKASPEQELIQL-----VQAFVRHMOR 1753
Db 1943 -----ETNLDFRGLAIVSOHLDLQLOADAINAFGESLQK 1977
```

RESULT 8
US-60-717-251-661
; Sequence 661, Application US/60717251
; GENERAL INFORMATION:
; APPLICANT: Steven RUBEN et al.
; TITLE OF INVENTION: BREAST DISEASE TARGETS AND USES THEREOF
; FILE REFERENCE: CL001624
; CURRENT APPLICATION NUMBER: US/60/717,251
; CURRENT FILING DATE: 2005-09-16
; NUMBER OF SEQ ID NOS: 1966
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 661
; LENGTH: 2013
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-717-251-661

Query Match 3.2%; Score 292.5; DB 8; Length 2013;
Best Local Similarity 18.9%; Pred. No. 7.2e-13;
Matches 416; Conservative 303; Mismatches 743; Indels 741; Gaps 104;

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QY 41 NKHWRRLLEG-----LSYK--PPSPSSABKV-KANKVASPKELGLR- 81
Db 26 NALWRQPEAVHLLDKLKKHKPDFISLFKNPPKNVQOHEKVQKASTEGVAIQOQOQTRL 85
QY 82 -----ISKFLGLDEEQSVOLLQO--YLQEDYRG--TRDSVKTVLQDERSQOALIL 127
Db 86 LPQLIKBAFILSDLPDIGELAAVELLLAGEHQPHPPGLTRGLVAVLL-----134
QY 128 KIADYVEERTCILRCVLHLL-----TYFODERHPYRVEYACD 167
Db 135 -----YWDGKRCIANSILKALIQSRGRKWTWLTLSPELASMTRFTDELMEQGLTYKVL- 188
QY 168 KLSKELVSK--YRQOFEELYKTEAPTWEHGNLMTROVSRWFVQCLREGSMLEIIFLY 225
Db 189 -----LVQSVDVNNNEFEKQRLGRGLGSEKH-----RKEVSDLIKEC---RQSLAESLFAW 235
```

QY 226 YAYFEMAPSDLLVLTVMFKEQFGSGRQTNRLHVDETMDP--FVDRIGYFSAIILVEGMDI 283
D 236 ACQSPGKEDTLLI-----GHLERVTEANGSLDAVNALLMALLYCFDI 281
QY 284 -----BSLHKCALDRRE--LHQAQDGLICQMDCLMTFGDIPH-HAPVL 327
D 282 SFIEQSTBEERDMHOLPTEKQYIATIHSLRQDSQWLK-----LPGIQTAVR 330
QY 328 LAWALLRHTLN--PE-----ETSSVVRKIGTAIQNVFQYLTRLLOQLASGGNDCTTST 380
D 331 LAWALALRGISQDPDVTALAFTEDEAMAEIADNVFLP---LMESVVVSEFYQBEF 387
QY 381 ACMCVYGLLS--FVLTSLEHTLGNQD-----IIDTACEVLADSLP----- 421
D 388 YIRRVHNLITDPLALMPKVKQLRNRADEADARMHMSQMGNEPISLRRDLHMLLIG 447
QY 422 -----ELFWGTPT-----SGLG-----IILDSVCGMP-----P 445
D 448 ELYKKNPFHLEALFYMCPTPLQPTFTMGSYLGAHQRPQORQVLSKFRQMGDLPLP 507
QY 446 HLLSPQLQALRALVSGKSTAKVYSFLDKMSFYNELYKHKPHDVISHEDGTLWRRQPKL 505
D 508 TIYIPYKMLQUGLANGPOCAHYCFSL----- 534
QY 506 LYPGQOTNLRIPQGTQGVMLDDRAYLVRWEYSYSSWTLFTCEIEMLLHVSTADVIQH 565
D 535 ---KVGSSSHVENIQAGGSP-----VSMHPHPSLMLYH---EHLRKDLPASADSVQY 581
QY 566 CORVKPIIDLHVHJVISTDLSIADCLLPITSRIYMLLQ--RLTTVISP---PVDVITASCVN 620
D 582 ---RHLPSRGITQK--EODGLIA--FLQTTSTIITWSENARLALCEHPQWTPVVVLIGLLQ 635
QY 621 C-----LTVLAA--RNP--AKWTDLRHGTLPFVAHPVSSLSQMSIABGMNAG 665
D 636 CSIPPVLKAEKLTALAFKSPKPEIAASLWQSLYQIQLTWRIPSORQAIGIEV----- 690
QY 666 GYGNLLMNSQOQGYGVYTFIAFLRILITLVKGQSGTOSQGL-----VPCVMFVLKEMLP 720
D 691 -----LNEISRECEYPLTRAFQCLISTIVESSFNSLGNAGLRPGPDYPLQFLRDSVFL 745
QY 721 SYHKWRYNHSGVREGICLIELIHAJNLCHETDLHSHTPSL-----QFLCIGS--L 772
D 746 RFRTRAYRAAKWEVAEVLVEFYKLLR-----DYEQLRDEFDVDFVELQGBEII 796
QY 773 AYTEAG-----QTVINIMGIVDTIDMWAAOPRSDGAEQOGQILLIKTV 818
D 797 AYKPPGSLMYHLNESPMLLEALSLEBEGVKQLD--TYAPPGKHKLEKAVOHCIALNL 855
QY 819 KL-AFSTVNNVIRLPPSNVVSPLQAL---SOHGAHGNLITAVLAKYIYHKHDPALPRL 874
D 856 TLOKENLFWDLRESQALIVCPLEQLLOGINPRTKKADNVNI--ARVLYHGN--TNPEL 912
QY 875 AIQLKRLATVAPMS-----VYACLGNDAAA--IRDAFLTRL 909
D 913 APESAKILCCISCNSNIQIKLVGDFTHDQISQKLMAGFVECDCEDAEEFVRLBEGSEL 972
QY 910 QSKIEDMR--IKVMILEFTVAVEFQPLIELF--LNLEVKDGSCKSFSLGMW-----SC 962
D 973 EKKUVAIRHETRIHNLITSLCNPPLALYLGFLKPKVPSTNITNODPGVLCGPRTIC 1032
QY 963 LHAVLELDSQOQDRYWCYPPPLHRAAIAFLHALWQ-----DRRDSAMLVLRTPKPF 1013
D 1033 LHAJNLILEKGTGR--TCPVAVRESPQALAEYCQVIYQLCACSDTSGMTWYLATSDQF 1090
QY 1014 WENLSPILFTGLS--PPSSTS--EPSILETCALIMKIICLEIYVYVKGSLDQSLKDT---- 1066
D 1091 -----LFSQQLYPLFSPKNEYSIMLQNSMLMKTASTELRVT---SLNRQSRHTQRL 1140
QY 1067 -----LKKFS-----IEKFAWNGY----- 1082
D 1141 HLLDDMPVKPYSGEGGIEDENRVSGLFHFTATKVRKILNITLSDISDFSQEIPQLQ 1200

QY 1083 -----VKSL-AHVVAETEG-----SSCT 1099
D 1201 LDFFDRAQIEQVIANCEBHNKRGQTVCNVKLLHVLVAEVALQGMAGIAQORPLMEBIS 1260
QY 1100 SLLEY-----OMLVSAWRML--LIATTHADIMHLLTD-SVVRRLQFLDV-- 1140
D 1261 TVLQTVVGRNKLLOCLHAKRHLESWRLVEIILTACQDILIQADREDQLIIRDILOQVHD 1320
QY 1141 ---LDGTKALLVAPSVNCLRGSMKCTLLILLRLQWKRELSGVDEILQP----- 1187
D 1321 KILDERAQAELMPVAVAG--VFTLTAHLSQAVLTEQKQ-----TSVLGPAEHAHYAFLDS 1373
QY 1188 -----LTEILEGVLAQDQQLMEKTKAKVFSAFITVLQWK 1221
D 1374 CFTSPPEENPLVGFASIGDSSLYILKKLLDFILKTGG--FORVTRHLSGLLYLOIA 1432
QY 1222 E-----MKVSDIPQYSOLVL--NVCETLQEEVIALFDQTRHSLALGSATED---KDSM 1269
D 1433 QRPDEPDTLEAAKKTMMERLTAPEDVFSKLQRENIATIE-----SYGAALMEVVCRDAC 1486
QY 1270 ETDCSRSHRRDQRDQVCVLGLHLAKELCEVDEDSWLVQVTRRLPIPTLLTTLEVSRL 1329
D 1487 DGHEIGR-----MLALALLDRIVSDKQ--QOMLLYLSNSGYLKVLDVLSVEDDR 1534
QY 1330 MKQN-----LHFTTEATLHLLTLARTQOGATAVAGAGITQSIICLPLLSVYQLST 1378
D 1535 TLOSLLLTPQPLLKALYTESKMAFLTRVAKIQOGALELLRSGVI--VRLAQCVYDNRP 1592
QY 1379 NGTAQTPSASR--KSLDAPSWPGVYRLSMLSEQLLKTLYNPLPALDFVG-----VHQ 1431
D 1593 ETDQSMFGMDPPMFIPTVDVRYNQLILPALQCOVILTSSMAQHLQAGQVLOFLISH 1652
QY 1432 ERTLOCLNAVRTVOSLACLEADHTVGFILQLSNPMKEMHFLPOLMR--DIQVNLGYLC 1489
D 1653 SDTIOAILRCQDV--SAGSLQELALLTGIIKAA-----LPGILSELDDVNEGSLM 1702
QY 1490 Q-----ACTSLH--SRKMLQHYLQNKNGDGLPSAQAQVORPPSAASAAPSS 1535
D 1703 ELQGHIGRFORQCLGLLRFSGSDRLRQFKQDDNVEG-----DKV 1743
QY 1536 SKQPAADTEASEQQALHTVQYGLLKLILSKTLAALRHFTPDVCQILLDQSLDAEYNFLPA 1595
D 1744 SKQDIEL-AMQOICANWEY-----COSMLQS-----STFQHA 1778
QY 1596 LSFTTPTPDSV-----APSGTLLATVNALN-----MLG 1626
D 1779 VCLFTPSLSETVNRDGPQDTQAPVVPYWRUPGLGIIYLLKQSANDFSYVDYSHRQSVS 1838
QY 1627 EL-----DKKKEPLTOAV-----GLSTQAE-----GTRTLKSLLMFTM 1659
D 1839 KLQNVQELPPDIBEKE-LQOSVMPAGVDKISTAQKYVLARRRLVKVINNRKLLSLCSFII 1897
QY 1660 ENCFVLLISQAMRYLRDPAVH--PRDKORMQKQELSELSTLLSLSRVFRRCAPSSPATG 1717
D 1898 ETCLFIL--WRHLEYILLHCHMPDSQ-----DSLPSRTILFKSRLQDSFAS- 1942
QY 1718 VLPSQPGKSTSL---SKASPESQEPLIQL---VOAFVRHMQR 1753
D 1943 -----ETNLDPRSGLAIVSQHDLQLOADAINAFGESLQK 1977

RESULT 9

US-60-717-196-498
; Sequence 498, Application US/60717196
; GENERAL INFORMATION:
; APPLICANT: Mehdi MESRI et al.
; TITLE OF INVENTION: STOMACH DISEASE TARGETS AND USES THEREOF
; FILE REFERENCE: CLO01631
; CURRENT APPLICATION NUMBER: US/60/717,196
; CURRENT FILING DATE: 2005-09-16
; NUMBER OF SEQ ID NOS: 2826
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 498

Db 1839 KQNVQELPPDEIKE-LQSQVMPAGVDKISTAQKYVLARRELVKVINNRKLLSLCSFII 1897
Qy 1660 ENCFYLLISQAMRYLRPAVH--PRDKORMQKQELSSSELSTLLSSLSRYFRGAPSSPATG 1717
Db 1898 ETCJLFI--WRHLEYLLHCHMTDSQ-----DSLFBARTLFKSRRLOQDSFAS- 1942
Qy 1718 VLPSFOGKSTSL---SKASPESQBPFIQL---VQAFVRHMQR 1753
Db 1943 -----ETNLDPRSGLAIVSQHDLQLOADAINAFGESIQK 1977

RESULT 10

US-60-664-936-323
; Sequence 323, Application US/60664936
; GENERAL INFORMATION:
; APPLICANT: JOSELOPF, Elizabeth et al.
; TITLE OF INVENTION: KIDNEY DISEASE TARGETS AND USES THEREOF
; FILE REFERENCE: CLO01591
; CURRENT APPLICATION NUMBER: US/60/664,936
; CURRENT FILING DATE: 2005-03-25
; NUMBER OF SEQ ID NOS: 2456
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 323
; LENGTH: 2014
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-664-936-323

Query Match 3.2%; Score 292.5; DB 8; Length 2014;
Best Local Similarity 18.9%; Pred. No. 7.2e-13;
Matches 417; Conservative 302; Mismatches 745; Indels 739; Gaps 104;
Qy 41 NKHRRLLLEG-----LSYK--PPSPSSAEKV-KANKDVASPLKELGLR- 81
Db 26 NALWRRQPEAVHLLDKILKXGKPFISLUFKNPPKXVQOHEKVQKASTEGVAIQGGGRL 85
Qy 82 -----ISKPLGLDEBQSVQLQC--YLQEDYRG-TRDSVKTVLQDEROSQALIL 127
Db 86 LPEQLIKEAFILSDLFDIGELAAVELLLAGEHQHPFGRLTRGLVAVLL----- 134
Qy 128 KIADYVEERTCILRCVHLHLL-----TYFODERHPYRVEYADCVD 167
Db 135 -----YWDGKCIANSKALIQSRGKTWLTLSPELASMTTRFDLMEQGLTYKVLT- 188
Qy 168 KLELIVSK--YRQOFELYKTEAPTETHGNLMTROVSRWFVQCLREQSMLEIIFLY 225
Db 189 -----LVSQIDVNNFEKLRERGIGSEKH--RKEARVSDLIKEC---RQSLAESLPAW 237
Qy 226 YAYFEMAPSDLLVLTMPKQFGSGRQTRNHLVDETMDP--FVDRIGYFSALILVEGMDI 283
Db 238 ACQSPGKEDTLLI-----GHLERVTVANGSLDAVNALLMALLYCFDI 283
Qy 284 -----ESLHKCALDRRE--LHQPAQDGLICQDMDCMLMTFGDIPH-HAPVL 327
Db 284 SFIEQSTEERDDMIHQLPLTEKQVIATIHRSRLOQSLWK-----LPGIQAIVR 332
Qy 328 LAWALLRHTLN--PE-----ETSSVVRKIGGTAIQNLVQYILTRILLOSLASGNDCTTST 380
Db 333 LAWALLRIGISQLPDVTALEAETEADAEALAIADNVFLF---LMESVVVSEYFYQBEF 389
Qy 381 ACMCVYGLLS--FVLTSLELHTGNQD-----IITACEVLGADPSLP----- 421
Db 390 YIRRVHNLITDPLAMPKVKQLNRADEDARMHMSQMGNPEFISLRDLHLMLIG 449
Qy 422 -----ELFMGTPT-----SGLG-----IILDSVCGMF-----P 445
Db 450 ELYKKNPFHLEALEVWCPTETPLQPTIMSGYLVGAHQRPQORQVVLKFRQMGLLPP 509
Qy 446 HLLSPLOQLLRALVSGSKTAKKVYFLDKMSFYNELYKHKPHDVISHEDGTLWRRQTKL 505
Db 510 TIYIPYKMLQLANGPOCAHYCFSL----- 536

Qy 506 LYPGGQTNLRIPQGTVGQVMDLDRAYLVRWEYSYSSWTLFTCEIEMLLHVSTADVIOH 565
Db 537 --KVGSSHVENIIOAGGSP-----VSWEHFFHSLMLYH---EHLRKDLPSSADSVOY 583
Qy 566 QORVKPIIDLHVHKVISTDLSTADCLLPITSRIVMLQ--RLTTVISP---PVDVIASCVN 620
Db 584 --RHLPSRGITQK--EQOGLIA--FLQJTSIIITWSENARIALCEHPQWTPVVLIGLLO 637
Qy 621 C-----LTVLAA--RNP-----AKVWTDLRHTGFLPFVAHPVSSISQMSIABGMNAG 665
Db 638 CSIPPLVKABELLKTAAAFGKSPETAASLWQSLEVYQILQTVRIPSQOAIQIEVE----- 692
Qy 666 GYGNLLMNSQOPEQYGVTTAFRLITLVKQGLGSTQSQGL-----VPCVMFVLEKMLP 720
Db 693 -----LNEIESRCEEYPLTRAFQCLISTLVSSPFSNLGAGLRPPGFPYLOFLRDSVFL 747
Qy 721 SYHKWRYNSHGVRQIOGCLILELHAILNLCHETDLHSSHTPSL-----QFLCLICS--L 772
Db 748 RFRTRAVRRAAEKWEVAEVLLEVYKLLR-----DYEFOLEDVDFVQFVELOGEBII 798
Qy 773 AYTEAG-----QTVINIMIGIVDTIDMVMAAQPRSDGAEQGGQGLLIKTIV 818
Db 799 AYKPPGFSMLYHLLNESPMLELALSLEEGVKQLD-TYAPFPKGKHKLEKAVQHCALLNL 857
Qy 819 KL-AFSTVNNVIRLKPPSNVVSPLQAL---SQHAGHGNLIIVLAKIYIYHKKDPAIPRL 874
Db 858 TLQENLFMDLLRESQALIVCPLEQLQGINPRTKADNVVNI--ARYLYHGN--TNPEL 914
Qy 875 AIQLLKRLATVAPMS-----VYACLGNDA--IRDAFLTRL 909
Db 915 AFESAKILCCISCSNNTQIKLVGPTHQDSISQKLMAGFVCLDCEDAEFVLEEGSEL 974
Qy 910 QSKIEDMR--IKVMILBELTVAVETQPGLIBLF--LNLEVKDGDGSKBFSLGMM---SC 962
Db 975 EKKLVAIRHETRIHLLNLLITSLCNPENLALYLLGFELKKPVSTTNLQDPCVLCPRTC 1034
Qy 963 LHAVLEIDSOQDQRYWCYCPPLLHRAAIAFLHALWQ-----DRRDSAMLVLTKEKF 1013
Db 1035 LHAILNILEKTEGR--TGPVAVRESQALBCELYQVIYQLCACSDTSQPTMYRLTSDQF 1092
Qy 1014 WENLTSLPFGTLS--PSETS-EPISLETALIMKIICLEIYVYVKGSLDOSLKT--- 1066
Db 1093 -----LFSLOQLVPPSNKSEYEISMLNQMWMKTASIELRVT---SLNRQSRHTORLL 1142
Qy 1067 -----LKFS-----IEKRFAYWSGY----- 1082
Db 1143 HLLDDMPVKPYSDGEGGIEDENRSVSGFLHFDATKVRKILNLTDSIDFQSEIPELQ 1202
Qy 1083 -----VKSL-AVHVAETEG-----SSCT 1099
Db 1203 LDFPDRAQIEQVIANCEHKNLRGQTVCNVKKLHRLVLAENVNALQMAAIGQRPLLMEIS 1262
Qy 1100 SILEY-----QMLVSNRML--LIATTHADIMHLLTD-SVVRQLFLDV-- 1140
Db 1263 TVLQVYVGRNKLQCLHAKRHALESWROLVEIILTACPDLLQAEADROLIIRDILOVDH 1322
Qy 1141 --LDGTKALLVPASVNCRLGSMKCTLLILLRQWKEGASVDEILGP----- 1187
Db 1323 KILDEAAQELMPVAVAGA--VFTLTAHLSQAVLFEKQK-----TSVLGPAEAHYAFMLDS 1375
Qy 1188 -----LPEILEGVLAQOQMLMEKTKAKVFSFIVTLQMK 1221
Db 1376 CFTSPPEENPLVGFASIGDSSLYIILKKLLDFILKTGGG-FQVRVTHLYGLSLLYLOIA 1434
Qy 1222 E-----MKVSDIPQYSQVL--NVCETIQEEVIALFDQTHSLALGASATED---KQSM 1269
Db 1435 QRPDEPDTLEAAKKTWMLERTAPEDVFSKLORENIAIIE-----SYGAALMEVVCRCAC 1488
Qy 1270 ETTDCSRHRDQRDQGVCVLGLHLAKELCEVDEGDSMLQVTRRLPIPLTLTLEVSUR 1329
Db 1489 DGHEIGR-----MLALALLDRIVSVQDKQ--QQMLLYLSNSGKLVKLVDSIVEDDR 1536
Qy 1330 MKQN-----LHFTFATLHLLTLARTQOQATAVAGAGITQSCICLPLLSVQLST 1378

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Db 1537 TLQSLTTPQPLKALYTESKMAFLTRVAKIQGAELELLRSGVI--VRLAQOQVYDMRP 1594
Qy 1379 NGTAQTPSASR-KSLDAPSPWGYRULSMISMEQLLTKLRYNPLPEALDFVG-----VHQ 1431
Db 1595 ETDQSMFGMRDPPMFIPTVDYRQIILLPALQCVILTSSMAOHLQAAGVQLQFLISH 1654
Qy 1432 ERTLOCLNAVRTVQSACLAEADHTVGFILQSLNFMKEWHFHLPLQMLR--DIQVNLGYLC 1489
Db 1655 SDTIQAILRCQDV-SAGSIQELALALLTGIISKAA-----LPGILSELVDVVDNKGSLM 1704
Qy 1490 Q-----ACTSLH-----SRKMLQHYLQNKNGDGLPSAVAQVRORPPSAASAAPSS 1535
Db 1705 ELQGHIGRQRCQLGLSRFGSDRLRQPKFQDNDVEG-----DKV 1745
Qy 1536 SKQPAADTASEQOALHTVOYGLLKILSKTLAALRHFTPDVQOILLDDQSLDLAYNPLFA 1595
Db 1746 SKKDEIEL-AMQOICANVMEY-----CQSLMLQS-----SPTFOHA 1780
Qy 1596 LSFTTPTFDSEV-----APSEGTLLATVNVALN-----MLG 1626
Db 1781 VCLFTFSLSETVNRDGRQDTPQAPVYWRPLPGLGIIYLLKQSANDFPSYDHSRQSVS 1840
Qy 1627 EL-----DKKKEPLTAQV-----GLSTQAE-----GTRTLKSLLMFTM 1659
Db 1841 KLQNVQLPDEIKE-LCQSVMPAGVDKISTAQKYVLARRRLVKVINNRKALLSLCSFII 1899
Qy 1660 ENCFYLLISQMYRLDPAVH--PROKQMKQBELSELSTLLSSLSRYFRRGAPSPATG 1717
Db 1900 ETCFLFIL---WRHLEYLLHLCMPTDSQ-----DSLFASTRLFKSRRLQDSFAS- 1944
Qy 1718 VLPSPQKSTSL---SKAPSEOEPLIQL---VOAFVRHMOR 1753
Db 1945 -----ETNDFRSGLAIVSOHDLQLOADAINAFGESLQK 1979

RESULT 11
US-60-701-038-308
; Sequence 308, Application US/60701038
; GENERAL INFORMATION:
; APPLICANT: JOSELOFF, Elizabeth et al.
; TITLE OF INVENTION: KIDNEY DISEASE TARGETS AND USES THEREOF
; FILE REFERENCE: CL001616
; CURRENT APPLICATION NUMBER: US/60/701,038
; CURRENT FILING DATE: 2005-07-21
; NUMBER OF SEQ ID NOS: 1828
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 308
; LENGTH: 2015
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-701-038-308
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Query Match 3.2%; Score 292.5; DB 8; Length 2015;
Best Local Similarity 18.9%; Pred. No. 7.2e-13;
Matches 417; Conservative 302; Mismatches 745; Indels 739; Gaps 104;

Qy 41 NKHWRLLEG-----LSYK--PPSPSSAEKV-KANKDVASPLKELGLR- 81
Db 26 NALWRRQPEAVHLDDKILKKHKDPDFISLFKNPPKNVQOHEKVQKASTEGVAIQOQOQTRL 85
Qy 82 -----ISKFLGLDEQSVOLLQC--YLQEDYRG--TRDSVKTVLQDERSQALIL 127
Db 86 LPQLIKEAFILSDLDIGLAAVELLLAGEHOQHPHPPGLTRGLVALL----- 134
Qy 128 KIADYYEERTCILRCVLHLL-----TYFODERHPYRVEYADCDV 167
Db 135 -----YWDGKRCIANSALKAIQSRGKTWTLELSPELASMTTFTDELMEQGLTYKVL-T- 188
Qy 168 KLEKELVSK--YQOQFEELYKTAPTWETHGNLMTERQVSRWFVQCLREOSMLELIFLY 225
Db 189 -----LVSQDVANNEPEKLQERGLGSEKH---RKEARVSDLIKEC---RQSLAESLFAW 237
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Qy 226 YAYFEMAPSDLLVLTQMFEQCGSGSRQTRNRHLVDEMDP--FVDRIGYFSALILVGBMDI 283
Db 238 ACQSPGKEDTLLI-----GHLERVTVANGSLDAVNLALLMALLYCFDI 283
Qy 284 -----SSLHKCALDDRR-----LHQFAQDGLICQDMDCMLMTTGDIPH-HAPVL 327
Db 284 SFTEQSTERDDMIHQLPLLTETKQVIATTHSRLODSQLWK-----LPGLOATVR 332
Qy 328 LAWALLRHTLN--PE-----ETSSVVRKIGGTAIQIANVFOYLTRLQLQSLASGNDCTTST 380
Db 333 LAWALALRGISQIPDVTALAEFTEADEAMAEIAADNVFLF---LMSVVVSEFYQEEF 389
Qy 381 ACWCVVGLIS--FVLTSLHLTLGNQD---IIDTACEVLADPSLP----- 421
Db 390 YIRRVHNLITDFLALMPMKVKQLRNRADEDARMIHMSMQMGNEPPISLRRDLHLMLLIG 449
Qy 422 -----ELFWGTEPT-----SGLG-----IILDSVCGMF-----P 445
Db 450 ELYKKNPFHLEALAEYWCPTPLQPTPTIMSGVLGAHQRPQQRQVVLKFPVROMGDLPP 509
Qy 446 HLLSPLLQLLRALVSGSKTAKKVYSPFLDKMSFYNELYKHKPHDVISHEDGTLWRRQTPKL 505
Db 510 TIYIPVKMLQGLANGPOCAHYCFSL----- 536
Qy 506 LYPLGQTNLRIPQGTGVQVMDLDRAYLVWRWEYSWTLFTCEIEMLLHVSTADVIQH 565
Db 537 --KVGSSHVENIQAGGSP-----VSWEHFPHSLMLYH--EHLRKDLPSADSVQY 583
Qy 566 CORVKPIIDLHKVISTDLSIADCLLPITSRIYMLLQ--RLTTVISP---PVDVIASCVN 620
Db 584 --RHLPSRGITQK--EQDGLIA--FLQLTSTIITWSENARLALCEHPQWTPVVVILGLLQ 637
Qy 621 C-----LTVLAA--RNP---AKVWTDLRHTGFLPFVAHPVSVLSQMSIAEGNAG 665
Db 638 CSIPPVKAECLKTLAFAFGKSPETIAASLMQSLLEYITQIOTVRIPSORAIGIEV----- 682
Qy 666 GYGNLIMNSEQOQGEYGVTTIAFLRLITLVKGOLGSTQOGL-----VPCWFMVLKEMLP 720
Db 693 -----LNEIESRCEEYPLTRAFQCLISTLVSESSFPNLAGLRPPGFPDYLQFLRDSVFL 747
Qy 721 SVHKWRYNSHGVRQEGCILELIHAILMLCHETDLHSSHTPSL-----QFLCICS---L 772
Db 748 RFRTRAYRAAEKWEVAEVLEVYFKLLR-----DYPEQLEDVDFQFVLEQGEI 798
Qy 773 AXTEAG-----OTVINIMGIGVDTIDMVMAAQPRSDCAEGQCGQLIKTV 818
Db 799 AVKPPGFSLMYHLLNESPMLLEALSLEEGVKQLD-TYAPFGKKHLEKAVQHCALLNL 857
Qy 819 KL-AFVSVTNNVIRLKPPSNVSPLEQAL---SQHGAHGNLIIAVLAKYIYHKHDPALPRL 874
Db 858 TLQKENLFWDLRLRESQALIVCFLEQLLOGINPRTKKADNVVNI--ARYLYHGN--TNPEL 914
Qy 875 ALOLLKRLATVAPMS-----VYACLGNDAAA---IRDAFLTRL 909
Db 915 AFESAKILCCISCSNISIQLKVGDFTHDOSISQKLMAGFVECLDCDAEFVLEBGESEL 974
Qy 910 QSKIEDMR--IKVMILELTVAVETOPGLIELF-LNLEVKDGDGSKFESLGW---SC 962
Db 975 EKKLVAIRHETRIHILNLITSLECNPPNIALYLLGFELKKPVSTTNLQDPGVLCGPRTC 1034
Qy 963 LHAVLELDSQQODRYCWPFLHRAAIAFLHALWQ-----DRRDSAMLVLRTPKPF 1013
Db 1035 LHAILNILEKGTGR--TGPVAVRESPQALAEVCQVIYQLCACSDTSGPTMYRLRTSQDF 1092
Qy 1014 WENLTSPLFGTSL--PPSETS--EPSILETCALIMKILCIIEIYVVKVGLSDQSLKDT---- 1066
Db 1093 -----LFSQLOYPFSNKEYEISMNLQMSWLMKMTASIELRVT---SLNRQSRHTQRL 1142
Qy 1067 -----LKKFS-----TEKRFAYWVG--- 1082
Db 1143 HLLDDMPVKPYSDGGEGGIEDENRSVGFHFDATATKVRKILNILDIDFSQEIPELQ 1202
Qy 1083 -----VKSL-AVHVAETEG-----SSCT 1099
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Db 1203 LDFFDRAIQEVIANCEHKNLRGQTCVNVKLLHRLVLAENVNALQGMMAAIGORPILMBEIS 1262
Qy 1100 SLLEY-----OMLVSAWML--LITATTHADIMHLD--SVRRQLFDV-- 1140
Db 1263 TVLQTVGVRNKLQCLHAKRHABSWRLVEIILTACPDILIQABEDROLIIRDILODVHD 1322
Qy 1141 --LDGTKALLVPASVNCIRLGSMMKCTILLILKQMKRELGSVDBILGP----- 1187
Db 1323 KILDEAAQELMPVVAGA--VFTLTAHLSQAVLTBQK-----TSVLPAEABVAFMLDS 1375
Qy 1188 -----LTEILEGVLOAQOQLMEKTKAVKVFSAFIVLOMK 1221
Db 1376 CFTSPPEENPLVGFASGDSLSYIILKGLDFILKTCGG--FORVTHLYGSLLYLQIA 1434
Qy 1222 E-----MKVSDIPOYSQVLV--NVCETLQEBEVIALFDQTRHSLALGSATED---KDSM 1269
Db 1435 QRPDEPTLEAAKKTWRELTAPEVDFSKLQRENIAIIE-----SYGAALMEVVCRDAC 1498
Qy 1270 ETDDCSRHRDRDQDGVCLGLHLAKELCEVDEDSWLVQVTRRPIPLTLLTTLEVSRL 1329
Db 1489 DGHEIGR-----MLALALDRIVSDKQ--QOMLLYLSNSGYLKVLDVSLVEDDR 1536
Qy 1330 MKQN-----LHTEATLHLLLTARTQCATAVAGITQSCICPLSLSYQLST 1378
Db 1537 TLQSLLTQPPLLKALYTESKMAFLTRVAKIQOGALELLRSGVI--VRLAQCCQVYDMRP 1594
Qy 1379 NGTAQTPGASR--KSLDAPSWPQVYRSLMSLEQLLKTLYNPLPEALDFVG-----VHQ 1431
Db 1595 ETDPOSFMGMDPPMFITPDVRYRQIILLPALQCVILTSSMAQHLQAQGVLOFLISH 1654
Qy 1432 ERTLOQLNAVTVQSLACLEADHTVGFILQISNFMKEWHFHPOLMR--DIQVNLGYLC 1489
Db 1655 SDTIOAILRCQDV--SAGSLQELALLTGIIKAA-----LPGILSELVDVNEGSLM 1704
Qy 1490 Q-----ACTSLH--SRKMLQHYLQNKNGDGLPSNAVQRVORPPSAASAAPSS 1535
Db 1705 BLOGHIGRFQRCGLLGRFGSDRLQFKFODDNVEG-----DKV 1745
Qy 1536 SKQPAADTEASQOALHTVQGLLKILSKTLAALRHFTPDVCOILLQSLDIAENELFA 1595
Db 1746 SKKDIEL-AMQOICANWEY-----CQSLMQS-----SPTFOHA 1780
Qy 1596 LSFPTPTPDSEV-----APSGFTLLATVNVALN-----MLG 1626
Db 1781 VCLFTPSLSETVNRDGPQDQOAPVVPYWRPLPGLGIIYLLKQSANDPFYSYDSHRQSVS 1840
Qy 1627 EL-----DKKKEPLQAV-----GLSTQAE-----GTRTLKSLLMFTM 1659
Db 1841 KLQNVQELPPDEIKE--LQSVMPAGVDKISTAQKYVLARRRLVKVINNRKLLSLCSPII 1899
Qy 1660 ENCFVLLISQAMRYLRDPVAV--PRDKQRMQKQELSELSTLLSLSRVFRGAPSSPATG 1717
Db 1900 ETLCLPIL-----WRHLEYLLHCMPDTSQ-----DSLFSKTLFSKRLQDSFAS- 1944
Qy 1718 VLPSPOGKSTSL---SKASPSEQLIQL---VOAFVRHMQR 1753
Db 1945 -----ETNLDFFRSLGAIVSQHDLDQLQADAINAFGESLQK 1979
```

RESULT 12

```
US-60-717-251-663
; Sequence 663, Application US/60717251
; GENERAL INFORMATION:
; APPLICANT: Steven RUBEN et al.
; TITLE OF INVENTION: BREAST DISEASE TARGETS AND USES THEREOF
; FILE REFERENCE: CL001624
; CURRENT APPLICATION NUMBER: US/60/717,251
; CURRENT FILING DATE: 2005-09-16
; NUMBER OF SEQ ID NOS: 1966
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 663
; LENGTH: 2015
```

```
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-717-251-663

Query Match 3.2%; Score 292.5; DB 8; Length 2015;
Best Local Similarity 18.9%; Pred No. 7.2e-13;
Matches 417; Conservative 302; Mismatches 745; Indels 739; Gaps 104;

Qy 41 NKHRRRLLEG-----LSYK--PPSPSSAEKV-KANKDVAAPLKBELGR- 81
Db 26 NALWRRQPEAVHLLDKILKHKHPPDFISLFKNPPKNVQOHEKVQKASTEGVAIQGQGRLL 85
Qy 82 -----ISFELGDEQSQVQLQOC--YLQEDYRG--TRDSVKTVLQDERQSOALL 127
Db 86 LPEQLIKEAFITLSLDFDIGELAAVELLAGHQHPFGLTRGLVAVLL----- 134
Qy 128 KIADYVEERTCILRCVLHLL-----TYFODERHPYRVEYADCVD 167
Db 135 -----YWDGKCIANSIKALIQSRGKTWTLELSPELASMTTRTFDELMEQGLTYKVLT- 188
Qy 168 KLEKELYSK--YRQOFBELYKTEAPTWTETHGNLMTERQVSRWFVQCLREQSMLEIIFLY 225
Db 189 -----LVSQIDVNNFEKQLQREGLGSEKH--RKEARVSDLIKEC---RQSLAESLFAW 237
Qy 226 YAYFEMAPSDLLVLTKMFKEQGFGFSQRQNRHNLVDETMDP--FVDRIGYFSALLIVEGMDI 283
Db 238 ACQSPGLKEDTLLI-----GHLERVTVBANGSLDAVNALLMALLLYCFDI 283
Qy 284 -----ESLHKCALDDRRE---LHQPAQDGLICQDMDCMLMTFGDIPH-HAPVL 327
Db 284 SFIQSTERTDMMIHLQPLLETKQVIATIHSLRQDSQLWK-----LPGLOATVR 332
Qy 328 LAWALLRHLM--PE-----ETSSVVRKIGTATQNLVFOYLTRILLOSLASGNDCTTST 380
Db 333 LAWALALRGISQLPDVTALAEFTREADENAEIATADNVFLP--LMESVWVSEYFQSEF 389
Qy 381 ACMCVYGLLS--FVLTSLLEHTLGNQD---IDTACEVLADPSLP----- 421
Db 390 YIRRVHNLIITDIALMPMKVKQLNRNRADEADARMHSMQMGNEPPISLRRDLHEHMLLIG 449
Qy 422 -----ELFWGTEPT-----SLGL-----IILDSVCGMF-----P 445
Db 450 BLYKKNPFHLEALEYWCPTPELPQPTPTMGSYLGVVAHORPPQRVVLSKFRQMGDLPP 509
Qy 446 HLLSPQLQLRALVSGSKSTAKKVYSFLDKMSFYNELYKHKPHDVISHEDGTLRRRQTPKL 505
Db 510 TIYIPYKMLQGLANGPQCAHYCFSL----- 536
Qy 506 LYPILGGQTNLRIPQGTQGVQVMDRDAYLVRYWEYSYSWTLFTCEIEMLLHVSTADVIQH 565
Db 537 --KVGSSHVENIQAGGSP-----VSWEHFFHSLMLYH---EHLRKOLPSADSQVY 583
Qy 566 CORVKPIIDLHVHKVISTDLSTADCLLPITSRIYMLLQ--RLTTVISP---PVDVIASCVN 620
Db 584 --RHLPSRGIYQK--EQDGLIA--FLQITSTIITWSENARLALCEHPQWTPVVLIGLLQ 637
Qy 621 C-----LTVLAA--RNP---AKVWTDLRHTGFLFPFAVHPVSSLSOMISASBGMNAG 665
Db 638 CSIPVPLKAEILLKTLAAFGKSPETAAASLWQSLEYTQILQTVRIPSQRAIGIEVE----- 692
Qy 666 GYGNNLLMNSQPGQEGYGVTFIAPLRILITTLVKQGLGSGTOSQGL-----VPCWVFLVKEMLP 720
Db 693 -----LNEIESRCEYPLTRAFQCLISTLVSESSPPSLNGLAGLRPPGFDPYQLFLRDSVFL 747
Qy 721 SYHKWRYNSHGVREQIGCLILELHAILNLCHETDLHSHSTPSL-----QFLCICS---L 772
Db 748 RFRTRAYRAAAKEVAEVWLEVFYKLLR-----DYEQLSEDFVDQFVELGEEII 798
Qy 773 AYTEAG-----QTVINIMIGIVDTIDMVAAPRSDGABGQGGQGLLIKTIV 818
Db 799 AYKPGFSLMYHLLNLSMPLALSLLEBEGVKQLD--TYAPFGKGHLEKAVQHCLALLNL 857
Qy 819 KL-AFSVTNNVIRLKPSPNVVSPLEQAL---SQHGAHGNLIIVLAKYIYHKHDPALPRL 874
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Fri Oct 21 09:03:53 2005

QY	DB	ORGANISM: Homo sapiens	US-60-701-038-307	Query Match	3.2%; Score 291.5; DB 8;	Length 2012;		
QY	DB	Best Local Similarity	18.9%; Pred. No. 8.6e-13;	Matches 416;	Conservative 302;	Mismatches 744;	Indels 741;	Gaps 104;
QY	41	NKHWRLLEG-	---	LSYK--PPSPSSAEKV-KANKDVASPLKELGLR- 81				
DB	26	NALWRRQPEAVHLLDKILKKKXPDFTSLFKNPKNVQOHEKVQKASTEGVAIQOQOQTRL 85						
QY	82	---	TSKFLGLDEEOSVOLLOQ--YLOEDYRG--TRDSVKTVLQDEROSQALIL 127					
DB	86	LPEQLIKEAFILSDULFDIGELAAVELLAGHQHFFGLTGRGLVAVLL----- 134						
QY	128	KIADYYEERTCILRCVHLHLL-----TYFODERHPYRVEYACVD 167						
DB	135	---YWDGKRCIANSLKALIOSRGKTWTLSELPASMTTRTDELMEQGLTYKVLV- 188						
QY	168	KLEKELVSK--YRQOPEELYKTEAPTWEPTHGNLMATERQVSRWFVQCLREOSMLLEIIFLY 225						
DB	189	---LVSDIVNNEBEKLOREGLGSEKH-----RKEVSDLIKEC--RQSLAESLFAW 235						
QY	226	YAYFENAPSDLLVLTOMKFEQFGSGRQTRHVLVDETMDP--FVDRIGYFSALILVEGMDI 283						
DB	236	ACOSPGLKEDTLLI-----GHLERVTVVEANGSLDAVNIALMLALLYCFDI 281						
QY	284	---ESLHKCALDDRR-----LHQFAQDGLICODMDCMLMTFGDIPH-HAPVL 327						
DB	282	SFIEQSTERRDDMIHQLPLLTKEQYIANYHSRLQDSQLWK-----LPGQATVR 330						
QY	328	LAWALLRHITLN--PE-----ETSSVVRKIGGTAIQANVQVILTRLLQSLASGNDCTTST 380						
DB	331	LAWALALRGISQLPDVTALAEAFTEADEAMAEIAIADNVFLF--LMESVVVVSEYFYQEEF 387						
QY	381	ACMCTVGLLS--FVLTSLEHLTGNOO-----IITACEVLADPSLP----- 421						
DB	388	YIRRVNHLITDFIALMPKVKQLRNRADRDARMIHSMQMGNEPPIISLRDLLEHMLLIG 447						
QY	422	---ELFWGTEPT-----SGLG-----IILDSVCGMF-----P 445						
DB	448	ELYKNPFLHELAEYWCETPELTQPTTIMSGVYLGAHORPPORQVVKFVRQMGDLLPP 507						
QY	446	HLLSPILLQALRALVSGSKTAKVYSPFLDKMSFYNBLYKHKPHDVISHEDGTLMRRQTPKL 505						
DB	508	TIYIPYLMQLOGLANGPQCHYCFSL----- 534						
QY	506	LYPLGGQTNLRIPQGTGVMYLDLDRAYLVRWYSYSSWTFTCEIEMLLHVSTADVIQH 565						
DB	535	--KVNGSSHVENIQAGGSP-----VSWEHFFHSLMLYH--EHLRKDLPADSQVY 581						
QY	566	QORVKPIIDLHVHKVITDLSIADCLLPITSRIYMLLO--RLTVTISP--PVDVIASCVN 620						
DB	582	--BHLPSRGITQK--BQDGLIA--FLQLTSTIITWSENARALCALCHHPQWTFVWVILGLQ 635						
QY	621	C-----LTVLAA--RNP--AKWTDLRHTGFLPFVAHPVSSLSOMISAEGMNAG 665						
DB	636	CSIPPVKAEALLKTLAAGKSPFIAASLQSLLEYQILQTVIPSORQAIGIEV----- 690						
QY	666	GYGNLLMNSPQOGEGYVTIARLRLITLVKQGLSTOSQGL-----VPCVMFVLKEMLP 720						
DB	691	---LNEIBESCEEYPLTRAFQCLISTLVSSPFLNAGLURPPGDFPYQLFLRDSVFL 745						
QY	721	SYHKWYNSHGVEQIGCLILELHAILMCHETDLHSHSTPSL-----QFLCICS--L 772						
DB	746	RFRTRARRAAEKWEVAEVVLEVFYKLLR-----DYEPQLEDVDVDFVELQGBEII 796						
QY	773	AYTEAG-----QTVINMGITGVDITDMVMAAQPRSDGAEQGGQGLIKTV 818						
DB	797	AYPPGSGLMYHLNESPMLLALSLEEGVQQLD--TYAPPFGKHLEKAVQHCIALNL 855						
QY	819	KL-AFSVTNNVIRLPPSNVSPLEQAL---SOHGAHGNLILAVLAKYIYHKHDPALPRL 874						

Qy	1660	ENCYLLISQAMRYLRDPVH--PRDKQRMKQELSSSELSTLLSSLSRYFRGAPSSPATG	1717
Db	1898	ETCLFIL-----WRHLEYLLHCHMPTDSQ-----DSLFASTLFFKSRRLQDSFAS-	1942
Qy	1718	VLPSPOCKSTSL---SKASPESQEP LIQL-----VQAFVRHMQR	1753
Db	1943	-----ETNLDFRSGLAIVSQHDLDLQLOADAINAFGESLQK	1977

Search completed: October 20, 2005, 16:13:53
Job time : 151 secs